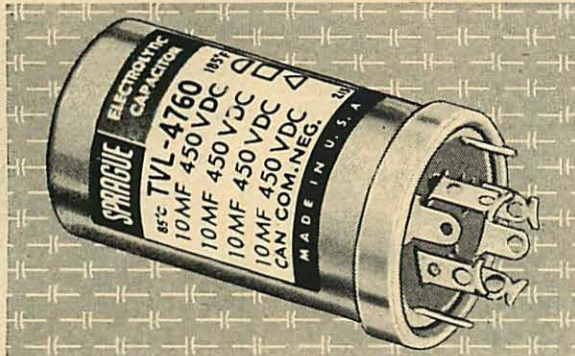


SPRAGUE CAPACITORS

TVL TWIST-LOK® ELECTROLYTICS



- Especially Designed for Tough TV and Radio Replacement Applications
- Hermetically Sealed in Aluminum Cans for Long Life and Dependable Performance
- Stand Up Under Extremely High Temperatures and High Surge Voltages as well as in High Ripple Selenium Rectifier Circuits
- Easy to Mount—A Twist of the Tabs Locks Unit Firmly in Place
- Furnished Complete with Bakelite and Metal Mounting Plates
- Designed for 85°C (185°F) Operation

Bold type indicates popular items and light type indicates less popular items. An asterisk (*) indicates that the item is available only on special order, but can be readily replaced with a more popular item.

μF	WVDC	Dia. x Length	Cat. No.	List	μF	WVDC	Dia. x Length	Cat. No.	List
SINGLE UNITS					20	250	1 x 2	TVL-1509	\$1.60
.5Ω @15.75 KC	3N.P.	1 x 2	TVL-1010	\$2.65	* 30	250	1 x 2	TVL-1516	2.15
1Ω @60 CPS	3N.P.	1 3/8 x 2 1/2	TVL-1015	4.00	40	250	1 x 2	TVL-1519	1.80
10Ω @30 CPS	3N.P.	1 3/8 x 2	TVL-1020	2.75	* 50	250	1 x 2 1/2	TVL-1522	2.45
*1000	6	1 3/8 x 2	TVL-1112	2.40	60	250	1 x 3	TVL-1525	2.55
2000	6	1 3/8 x 2	TVL-1115	2.55	* 80	250	1 x 3 1/2	TVL-1530	2.70
*1000	10	1 x 2 1/2	TVL-1125	3.20	100	250	1 x 3	TVL-1535	2.70
*3000	10	1 3/8 x 2 1/2	TVL-1140	3.65	150	250	1 3/8 x 2 1/2	TVL-1540	3.10
225	15	3/4 x 2	TVL-1160	1.75	200	250	1 3/8 x 3 1/2	TVL-1547	3.65
1000	15	1 x 2 1/2	TVL-1165	2.55	15	300	1 x 2	TVL-1560	2.00
*1500	15	1 x 3	TVL-1167	3.45	* 30	300	1 x 2	TVL-1563	2.20
2000	15	1 3/8 x 2	TVL-1168	3.45	* 50	300	1 x 2 1/2	TVL-1567	2.55
3000	15	1 3/8 x 3	TVL-1170	3.50	60	300	1 x 3	TVL-1570	2.65
4000	15	1 3/8 x 3 1/2	TVL-1173	3.75	80	300	1 x 3 1/2	TVL-1573	2.55
* 25	25	3/4 x 2	TVL-1207	1.55	100	300	1 x 4	TVL-1578	2.90
40	25	3/4 x 2	TVL-1210	1.35	125	300	1 3/8 x 3 1/2	TVL-1580	3.50
* 50	25	1 x 2	TVL-1211	1.70	150	300	1 3/8 x 3 1/2	TVL-1584	3.50
* 100	25	3/4 x 2	TVL-1215	2.00	250	300	1 3/8 x 4	TVL-1590	5.55
500	25	1 x 2	TVL-1220	2.55	* 10	350	1 x 2	TVL-1605	1.90
1000	25	1 3/8 x 2	TVL-1230	3.55	15	350	1 x 2	TVL-1608	2.05
4	50	3/4 x 2	TVL-1305	1.55	* 20	350	1 x 2	TVL-1612	2.20
25	50	3/4 x 2	TVL-1308	1.70	30	350	1 x 2	TVL-1617	1.90
100	50	3/4 x 2	TVL-1317	1.65	40	350	1 x 2	TVL-1621	2.00
150	50	3/4 x 2 1/2	TVL-1320	1.80	50	350	1 x 2	TVL-1622	2.10
250	50	1 x 2 1/2	TVL-1324	2.00	60	350	1 x 3	TVL-1624	2.20
500	50	1 3/8 x 2 1/2	TVL-1330	2.65	80	350	1 3/8 x 2	TVL-1630	2.85
1000	50	1 3/8 x 3 1/2	TVL-1338	3.75	125	350	1 3/8 x 3 1/2	TVL-1638	3.95
1500	50	1 3/8 x 4	TVL-1341	3.85	*140	350	1 3/8 x 4	TVL-1641	4.95
* 10	150	1 x 2	TVL-1403	1.65	150	350	1 3/8 x 4	TVL-1642	3.95
* 20	150	1 x 2	TVL-1405	1.80	* 10	400	1 x 2	TVL-1655	1.90
* 25	150	1 x 2	TVL-1407	1.90	* 20	400	1 x 2	TVL-1660	2.20
30	150	1 x 2	TVL-1408	1.55	* 40	400	1 3/8 x 2	TVL-1663	3.15
* 40	150	1 x 2	TVL-1412	2.00	* 50	400	1 3/8 x 2 1/2	TVL-1666	2.75
50	150	1 x 2	TVL-1415	1.65	* 80	400	1 3/8 x 3	TVL-1675	3.70
* 60	150	1 x 2	TVL-1417	2.20	*100	400	1 3/8 x 3 1/2	TVL-1679	4.25
80	150	1 x 2 1/2	TVL-1420	1.85	4	450	1 x 2	TVL-1702	1.40
* 80	150	1 3/8 x 2	TVL-1421	2.30	10	450	1 x 2	TVL-1705	1.55
100	150	1 x 2 1/2	TVL-1423	2.00	15	450	1 x 2	TVL-1709	1.70
* 110	150	1 x 3	TVL-1424	2.70	20	450	1 x 2	TVL-1714	1.80
120	150	1 x 2 1/2	TVL-1425	2.15	25	450	1 x 2 1/2	TVL-1716	2.40
120	150	1 3/8 x 2 1/2	TVL-1426	2.15	30	450	1 x 2 1/2	TVL-1720	1.95
140	150	1 x 3	TVL-1428	2.15	40	450	1 x 3	TVL-1725	2.05
150	150	1 x 3	TVL-1429	2.15	50	450	1 x 3	TVL-1728	2.35
150	150	1 3/8 x 3	TVL-1430	2.15	60	450	1 3/8 x 2 1/2	TVL-1730	2.60
200	150	1 3/8 x 4	TVL-1431	2.45	80	450	1 3/8 x 2 1/2	TVL-1735	3.05
300	150	1 3/8 x 3 1/2	TVL-1434	2.80	100	450	1 3/8 x 3	TVL-1750	3.45
* 40	200	1 x 2	TVL-1460	2.15	125	450	1 3/8 x 4	TVL-1760	3.85
160	200	1 3/8 x 3	TVL-1473	3.15	* 20	475	1 x 2 1/2	TVL-1807	2.30
* 15	250	1 x 2	TVL-1505	1.95	* 30	475	1 x 3	TVL-1810	2.50

SPRAGUE CAPACITORS

TVL TWIST-LOK ELECTROLYTICS, continued

μ F	WVDC	Dia. x Lgth.	Cat. No.	List	μ F	WVDC	Dia. x Lgth.	Cat. No.	List
40	475	1 $\frac{1}{8}$ x 2	TVL-1820	\$2.50	40-350	250-15	1 $\frac{1}{8}$ x 2	TVL-2502	\$3.45
*90	475	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-1850	4.40	* 40-25	250-25	1 x 2 $\frac{1}{2}$	TVL-2505	2.50
10	500	1 x 2	TVL-1940	1.70	50-100	250-50	1 $\frac{1}{8}$ x 2	TVL-2507	3.25
20	500	1 x 2 $\frac{1}{2}$	TVL-1943	1.85	* 80-100	250-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2508	3.55
30	500	1 x 3	TVL-1947	2.00	100-150	250-50	1$\frac{1}{8}$ x 3	TVL-2509	3.65
40	500	1 x 3 $\frac{1}{2}$	TVL-1950	2.50	* 40-25	250-150	1 x 2 $\frac{1}{2}$	TVL-2509.7	3.45
80	500	1 $\frac{1}{8}$ x 3	TVL-1958	3.20	* 10-10	250-250	1 x 2	TVL-2510	2.15
90	500	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-1960	3.50	20-20	250-250	1 x 2	TVL-2$\frac{1}{2}$15	1.90
15	525	1 $\frac{1}{8}$ x 3	TVL-1980	2.30	* 30-30	250-250	1 x 2 $\frac{1}{2}$	TVL-2517	2.75
					* 40-20	250-250	1 x 3	TVL-2519	2.75
					40-40	250-250	1 x 2	TVL-2520	2.50
					150-40	250-250	1 $\frac{1}{8}$ x 3	TVL-2534	4.80
					150-150	250-250	1$\frac{1}{8}$ x 4	TVL-2535	5.15
					200-200	250-250	1$\frac{1}{8}$ x 4	TVL-2538	6.05
DUAL UNITS									
.5 Ω @ 15.75 KC—					35-500	300-6	1 x 2$\frac{1}{2}$	TVL-2552	2.80
2.5 Ω @ 60 CPS					20-20	300-25	1 x 2	TVL-2555	2.30
1000-500	6N.P.-6N.P.	1 $\frac{1}{8}$ x 2	TVL-2010	\$4.50	20-100	300-25	1 x 2 $\frac{1}{2}$	TVL-2556	3.40
250-1000	10-6	1$\frac{1}{8}$ x 2	TVL-2140	2.85	10-40	300-50	1 x 2	TVL-2557	1.70
200-40	10-10	1 x 2	TVL-2151	2.00	80-100	300-50	1 $\frac{1}{8}$ x 3	TVL-2559	3.95
1000-1000	15-15	1 x 3$\frac{1}{2}$	TVL-2160	4.40	80-100	300-150	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2560	4.55
1000-1000	15-15	1$\frac{1}{8}$ x 2$\frac{1}{2}$	TVL-2161	4.40	60-10	300-200	1 x 3 $\frac{1}{2}$	TVL-2561	3.15
250-250	16-16	1 x 2	TVL-2170	3.45	20-60	300-250	1 x 3 $\frac{1}{2}$	TVL-2563	3.45
500-100	16-16	1 x 2	TVL-2175	3.90	* 10-10	300-300	1 x 2	TVL-2565	2.20
* 20-20	25-25	1 x 2	TVL-2207	1.80	* 15-15	300-300	1 x 2	TVL-2568	2.40
* 40-40	25-25	1 x 2	TVL-2210	2.00	40-30	300-300	1 x 3	TVL-2574	2.65
100-70	25-25	1 x 2	TVL-2224	1.80	* 40-40	300-300	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2575	3.75
150-50	25-25	1 x 2	TVL-2230	2.40	* 50-50	300-300	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2576	4.20
500-500	25-25	1 $\frac{1}{8}$ x 2	TVL-2233	5.50	* 60-20	300-300	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2578	3.50
1000-500	25-25	1 $\frac{1}{8}$ x 2	TVL-2239	6.80	60-60	300-300	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2579	4.25
50-50	50-50	1 x 2	TVL-2320	1.70	* 75-75	300-300	1 $\frac{1}{8}$ x 3	TVL-2580	4.75
100-25	50-50	1 x 2	TVL-2324	2.30	* 80-40	300-300	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2582	4.45
100-100	50-50	1 x 2	TVL-2326	2.10	* 80-60	300-300	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-2584	4.65
50-500	150-5	1 x 3	TVL-2404	2.45	80-80	300-300	1$\frac{1}{8}$ x 3	TVL-2585	4.05
* 40-20	150-25	1 x 2	TVL-2408	2.15	120-20	300-300	1$\frac{1}{8}$ x 3$\frac{1}{2}$	TVL-2588	4.00
40-150	150-25	1 x 2	TVL-2409	2.55	120-40	300-300	1$\frac{1}{8}$ x 3$\frac{1}{2}$	TVL-2589	4.35
50-150	150-25	1 x 2 $\frac{1}{2}$	TVL-2410	2.75	20-20	350-25	1 x 2	TVL-2604	2.40
150-100	150-25	1$\frac{1}{8}$ x 2$\frac{1}{2}$	TVL-2411	2.70	40-20	350-25	1 x 2 $\frac{1}{2}$	TVL-2605	2.95
* 40-20	150-50	1 x 2	TVL-2412	2.55	* 80-100	350-50	1 $\frac{1}{8}$ x 3	TVL-2607	5.65
20-10	150-150	1 x 2	TVL-2414	2.00	20-100	350-75	1 x 2 $\frac{1}{2}$	TVL-2608	2.80
20-20	150-150	1 x 2	TVL-2415	1.70	5-75	350-150	1 x 2 $\frac{1}{2}$	TVL-2610	2.65
30-15	150-150	1 x 2	TVL-2418	2.20	* 40-10	350-200	1 $\frac{1}{8}$ x 2	TVL-2612	3.05
30-20	150-150	1 x 2	TVL-2420	2.20	20-30	350-250	1 x 3	TVL-2615	2.90
30-30	150-150	1 x 2	TVL-2422	1.85	* 40-10	350-250	1 x 3	TVL-2617	3.05
40-20	150-150	1 x 2	TVL-2425	1.85	* 60-80	350-250	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-2618	4.30
40-30	150-150	1 x 2	TVL-2427	1.85	* 20-10	350-300	1 x 2	TVL-2620	2.55
40-40	150-150	1 x 2$\frac{1}{2}$	TVL-2428	1.90	* 30-30	350-300	1 x 3 $\frac{1}{2}$	TVL-2621	3.30
50-30	150-150	1 x 2$\frac{1}{2}$	TVL-2432	2.00	* 60-20	350-300	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2623	3.55
50-50	150-150	1 x 2$\frac{1}{2}$	TVL-2435	2.15	15-15	350-350	1 x 2	TVL-2625	2.25
60-20	150-150	1 x 2	TVL-2436	2.50	* 20-20	350-350	1 x 3	TVL-2626	2.90
60-60	150-150	1 x 3 $\frac{1}{2}$	TVL-2438	2.35	* 30-20	350-350	1 x 3 $\frac{1}{2}$	TVL-2627	3.25
70-30	150-150	1 x 2$\frac{1}{2}$	TVL-2439	2.20	30-30	350-350	1 x 3	TVL-2628	2.90
75-75	150-150	1 x 3	TVL-2440	2.60	50-30	350-350	1$\frac{1}{8}$ x 2$\frac{1}{2}$	TVL-2630	3.15
80-40	150-150	1$\frac{1}{8}$ x 2$\frac{1}{2}$	TVL-2442	2.30	60-30	350-350	1 $\frac{1}{8}$ x 3	TVL-2631	3.15
80-50	150-150	1 x 2$\frac{1}{2}$	TVL-2442.1	2.40	80-4	350-350	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2632	4.00
80-60	150-150	1 x 3	TVL-2442.2	3.00	80-20	350-350	1$\frac{1}{8}$ x 3	TVL-2633	3.50
80-80	150-150	1$\frac{1}{8}$ x 2	TVL-2442.4	2.65	80-40	350-350	1 $\frac{1}{8}$ x 3	TVL-2634	4.10
100-30	150-150	1 x 2 $\frac{1}{2}$	TVL-2442.7	2.80	80-80	350-350	1 $\frac{1}{8}$ x 4	TVL-2635	4.70
* 100-100	150-150	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2443	4.05	90-40	350-350	1 $\frac{1}{8}$ x 3	TVL-2637	4.30
125-100	150-150	1$\frac{1}{8}$ x 2$\frac{1}{2}$	TVL-2443.3	3.35	* 100-40	350-350	1 $\frac{1}{8}$ x 3	TVL-2638	5.75
150-80	150-150	1$\frac{1}{8}$ x 2$\frac{1}{2}$	TVL-2443.5	3.05	100-60	350-350	1$\frac{1}{8}$ x 3$\frac{1}{2}$	TVL-2639	4.80
* 150-150	150-150	1 $\frac{1}{8}$ x 3	TVL-2443.7	4.40	100-100	350-350	1$\frac{1}{8}$ x 4	TVL-2641	6.15
200-5	150-150	1 $\frac{1}{8}$ x 3	TVL-2444	2.70	160-10	350-350	1$\frac{1}{8}$ x 3	TVL-2643	4.30
200-125	150-150	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-2445	3.75	35-100	400-50	1 x 3	TVL-2651	2.60
200-150	150-150	1 $\frac{1}{8}$ x 4	TVL-2446	3.75	* 40-100	400-50	1 $\frac{1}{8}$ x 2	TVL-2653	3.40
200-200	150-150	1 $\frac{1}{8}$ x 4	TVL-2447	4.00	100-30	400-50	1$\frac{1}{8}$ x 3	TVL-2655	3.90
60-125	200-25	1 x 3	TVL-2453	3.00	80-80	400-200	1$\frac{1}{8}$ x 3$\frac{1}{2}$	TVL-2656	3.95
30-10	200-50	1 x 2	TVL-2455	2.30	* 60-80	400-250	1 $\frac{1}{8}$ x 4	TVL-2657	4.90
* 100-100	200-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-2458	3.55	* 15-15	400-400	1 x 2 $\frac{1}{2}$	TVL-2660	2.80
* 40-40	200-200	1 x 3	TVL-2460	2.90	* 30-10	400-400	1 x 3	TVL-2663	2.95
60-60	200-200	1 x 3	TVL-2461	3.40					
60-60	200-200	1$\frac{1}{8}$ x 2	TVL-2462	3.40					
100-100	200-200	1$\frac{1}{8}$ x 3	TVL-2464	3.50					
200-5	200-200	1$\frac{1}{8}$ x 2	TVL-2470	2.80					

SPRAGUE CAPACITORS

TVL TWIST-LOK ELECTROLYTICS, continued

μF	WVDC	Dia. x Lgth.	Cat. No.	List	μF	WVDC	Dia. x Lgth.	Cat. No.	List
60-60	400-400	1 3/8 x 4	TVL-2668	\$5.50	* 40-40	475-475	1 3/8 x 3	TVL-2830	\$5.40
75-75	400-400	1 3/8 x 4	TVL-2670	6.05	* 60-40	475-475	1 3/8 x 4	TVL-2840	5.70
* 80-10	400-400	1 3/8 x 3 1/2	TVL-2672	4.25	* 80-40	475-475	1 3/8 x 4	TVL-2850	6.30
* 80-20	400-400	1 3/8 x 3	TVL-2673	4.55	80.50	475.475	1 3/8 x 4	TVL-2851	5.20
* 80-40	400-400	1 3/8 x 4	TVL-2675	5.15	80-50	500-50	1 3/8 x 3 1/2	TVL-2907	4.75
80.60	400.400	1 3/8 x 3	TVL-2677	4.70	60-80	500-150	1 3/8 x 3	TVL-2916	4.70
120.40	400.400	1 3/8 x 4	TVL-2679	5.25	40-50	500-200	1 3/8 x 3	TVL-2920	4.20
					15-20	500-300	1 x 2 1/2	TVL-2922	2.90
10.20	450.25	1 x 2	TVL-2701	1.70	20-100	500-300	1 3/8 x 3	TVL-2924	4.90
20-20	450-25	1 x 2	TVL-2702	2.50	* 40-40	500-400	1 3/8 x 3	TVL-2926	4.70
20-100	450-25	1 x 2 1/2	TVL-2703	2.75	4-4	500-500	1 x 2 1/2	TVL-2931	2.15
40-20	450-25	1 x 3	TVL-2704	3.05	10.10	500.500	1 x 2 1/2	TVL-2933	1.95
* 80-10	450-25	1 3/8 x 3	TVL-2705	4.25	20.20	500.500	1 3/8 x 2 1/2	TVL-2935	2.85
* 80-20	450-25	1 3/8 x 3	TVL-2706	4.25	30.10	500.500	1 3/8 x 3	TVL-2936	2.60
10-100	450-50	1 x 2 1/2	TVL-2708	2.55	30.30	500.500	1 3/8 x 3	TVL-2937	3.25
30-25	450-50	1 x 2 1/2	TVL-2708.3	2.90	40-25	500-500	1 3/8 x 3	TVL-2939	4.55
40-50	450-50	1 x 3 1/2	TVL-2708.8	3.75	40.40	500.500	1 3/8 x 3	TVL-2940	4.30
40.100	450.50	1 x 3 1/2	TVL-2709	2.80	60.40	500.500	1 3/8 x 3 1/2	TVL-2944	4.60
50.100	450.50	1 3/8 x 2 1/2	TVL-2709.3	3.00	TRIPLE UNITS				
80.50	450.50	1 3/8 x 3	TVL-2710	3.50	1500-1500-1500	3-3-3	1 x 3 1/2	TVL-3015	\$9.00
80.100	450.50	1 3/8 x 3	TVL-2711	3.75	40-500-500	25-10-10	1 x 2 1/2	TVL-3202	5.05
					20.20.20	25.25.25	1 x 2	TVL-3210	1.95
10-50	450-100	1 3/8 x 2	TVL-2712	2.55	40-40-40	25-25-25	1 x 2	TVL-3230	3.20
20-100	450-100	1 3/8 x 2	TVL-2713	3.65	30-30-30	50-50-50	1 x 2	TVL-3320	3.25
30-40	450-150	1 3/8 x 2	TVL-2714	3.65	20-250-100	150-15-15	1 3/8 x 2	TVL-3403	4.35
30.200	450.150	1 3/8 x 3	TVL-2715	3.50	40-25-130	150-25-15	1 x 3	TVL-3404	4.95
40-150	450-150	1 3/8 x 3	TVL-2716	4.30	50-100-20	150-50-25	1 x 3	TVL-3405	4.30
80-50	450-150	1 3/8 x 3	TVL-2717	4.70	100-50-25	150-50-25	1 x 3	TVL-3407	4.50
80-60	450-150	1 3/8 x 3 1/2	TVL-2718	5.20	15.15.1200	150.150.2	1 x 2	TVL-3410	3.15
* 80-40	450-200	1 3/8 x 3	TVL-2720	4.75	30-20-100	150-150-6	1 x 2	TVL-3412	3.60
20.50	450.250	1 x 3	TVL-2722	2.80	20-20-100	150-150-10	1 x 2	TVL-3413	3.55
40.10	450.300	1 x 3	TVL-2724	2.60	20-20-250	150-150-10	1 x 2	TVL-3413.2	3.90
10-100	450-350	1 3/8 x 3 1/2	TVL-2727	5.00	30-30-200	150-150-10	1 x 2	TVL-3413.3	3.75
* 20-80	450-350	1 3/8 x 3 1/2	TVL-2730	4.55	40.20.150	150.150.10	1 x 2	TVL-3413.4	2.40
25-15	450-350	1 x 3	TVL-2732	3.20	* 40-20-200	150-150-10	1 x 2 1/2	TVL-3413.5	3.75
40.10	450.350	1 3/8 x 2	TVL-2735	2.60	40-20-250	150-150-10	1 x 2 1/2	TVL-3413.6	4.05
* 40-20	450-350	1 3/8 x 2 1/2	TVL-2736	3.55	40-40-100	150-150-10	1 x 2 1/2	TVL-3413.7	3.75
* 40-40	450-350	1 3/8 x 3	TVL-2737	4.15	* 40-40-250	150-150-10	1 x 2 1/2	TVL-3413.8	5.65
30-20	450-400	1 x 3	TVL-2741	3.40	* 80-20-200	150-150-10	1 3/8 x 2	TVL-3414	4.30
					80.30.300	150.150.10	1 3/8 x 2	TVL-3414.2	3.15
5.5	450.450	1 x 2	TVL-2748	1.70	90-40-400	150-150-10	1 3/8 x 2 1/2	TVL-3414.5	5.25
10.10	450.450	1 x 2	TVL-2750	1.90	100-20-200	150-150-10	1 3/8 x 2 1/2	TVL-3414.6	4.95
* 15-10	450-450	1 x 2 1/2	TVL-2752	2.80	100.80.200	150.150.10	1 3/8 x 2 1/2	TVL-3414.7	3.60
15.15	450.450	1 x 2 1/2	TVL-2753	2.25	60-40-400	150-150-15	1 3/8 x 2	TVL-3414.8	4.80
20.10	450.450	1 x 2 1/2	TVL-2754	2.25	80-20-100	150-150-15	1 3/8 x 2	TVL-3414.9	4.20
20.20	450.450	1 x 3	TVL-2755	2.55	* 20-20-20	150-150-25	1 x 2	TVL-3415	3.30
30.10	450.450	1 x 3	TVL-2757	2.40	20-20-200	150-150-25	1 x 3	TVL-3416	3.90
* 30-10	450-450	1 3/8 x 2	TVL-2757.2	3.00	30-20-20	150-150-25	1 x 2	TVL-3417	3.40
30-15	450-450	1 3/8 x 2	TVL-2758	3.30	30-30-20	150-150-25	1 x 2	TVL-3419	3.45
30.30	450.450	1 3/8 x 2 1/2	TVL-2759	3.05	40.20.20	150.150.25	1 x 2 1/2	TVL-3422	2.30
40-5	450-450	1 x 3	TVL-2760	3.20	40-20-100	150-150-25	1 x 3	TVL-3423	3.75
* 40-15	450-450	1 3/8 x 2 1/2	TVL-2761	3.50	40.20.200	150.150.25	1 x 2 1/2	TVL-3423.2	2.70
40.20	450.450	1 3/8 x 2 1/2	TVL-2762	3.25	* 40-30-20	150-150-25	1 x 2	TVL-3424	3.55
40.40	450.450	1 3/8 x 3	TVL-2764	3.45	* 40-30-25	150-150-25	1 x 2 1/2	TVL-3425	3.55
* 50-40	450-450	1 3/8 x 3	TVL-2766	4.50	40.40.20	150.150.25	1 x 2	TVL-3426	2.40
50.50	450.450	1 3/8 x 3	TVL-2767	3.85	40.40.200	150.150.25	1 x 3	TVL-3426.3	2.80
60.20	450.450	1 3/8 x 3	TVL-2768	3.55	40.40.250	150.150.25	1 x 3	TVL-3426.4	3.15
60.40	450.450	1 3/8 x 3 1/2	TVL-2770	3.95	50.30.20	150.150.25	1 x 2 1/2	TVL-3426.7	2.50
60.60	450.450	1 3/8 x 3 1/2	TVL-2772	4.50	50.30.100	150.150.25	1 x 3	TVL-3427	2.70
80.10	450.450	1 3/8 x 3	TVL-2776	3.60	50-30-200	150-150-25	1 3/8 x 2	TVL-3428	4.35
80.20	450.450	1 3/8 x 3	TVL-2776.5	3.90	50-30-300	150-150-25	1 x 3	TVL-3429	5.10
80.30	450.450	1 3/8 x 4	TVL-2777	4.20	50.50.20	150.150.25	1 x 3	TVL-3430	2.65
80.40	450.450	1 3/8 x 3 1/2	TVL-2778	5.05	50-50-200	150-150-25	1 x 3	TVL-3430.7	4.60
100.40	450.450	1 3/8 x 4	TVL-2780	4.85	60-20-20	150-150-25	1 x 2	TVL-3431	3.85
10-20	475-25	1 x 2	TVL-2802	2.15	60.40.200	150.150.25	1 x 3	TVL-3431.3	3.05
75-50	475-50	1 3/8 x 3	TVL-2804	4.55	60-60-100	150-150-25	1 3/8 x 2	TVL-3431.4	4.60
40-80	475-200	1 3/8 x 2 1/2	TVL-2807	4.55	80-20-20	150-150-25	1 x 3	TVL-3431.5	4.00
* 20-100	475-300	1 3/8 x 3 1/2	TVL-2810	4.95	80-30-300	150-150-25	1 3/8 x 2	TVL-3431.8	5.50
20.100	475.400	1 3/8 x 4	TVL-2813	4.50					
40-40	475-400	1 3/8 x 3	TVL-2815	4.70					
15.15	475.475	1 x 2 1/2	TVL-2820	2.35					
30.10	475.475	1 x 3	TVL-2824	2.60					
40.10	475.475	1 3/8 x 2 1/2	TVL-2827	3.10					

SPRAGUE CAPACITORS

TVL TWIST-LOK ELECTROLYTICS, continued

μ F	WVDC	Dia.x Lgth.	Cat. No.	List	μ F	WVDC	Dia.x Lgth.	Cat. No.	List
80.40-20	150.150-25	1 x 2 1/2	TVL-3432	\$2.80	10.500-500	300.15-15	1 3/8 x 2 1/2	TVL-3553	\$3.90
80.40-300	150.150-25	1 3/8 x 2 1/2	TVL-3432.4	3.70	20-10-10	300-75-25	1 x 2	TVL-3555	3.55
120-60-20	150.150-25	1 3/8 x 2	TVL-3432.6	5.05	100-60-20	300-150-25	1 3/8 x 3	TVL-3560	6.30
* 10-10-10	150.150-150	1 x 2	TVL-3432.8	3.10	20.150-80	300.150-150	1 3/8 x 3	TVL-3560.2	3.95
20.20-20	150.150-150	1 x 2	TVL-3433	2.30	100-150-30	300-150-150	1 3/8 x 4	TVL-3560.4	7.45
30.30-10	150.150-150	1 x 2	TVL-3435	2.85	100.200-30	300.150-150	1 3/8 x 4	TVL-3560.6	5.20
40.20-10	150.150-150	1 x 2	TVL-3436	2.35	100.200-60	300.150-150	1 3/8 x 4	TVL-3560.5	5.00
40.20-20	150.150-150	1 x 2 1/2	TVL-3437	2.40	* 20-80-10	300-250-200	1 3/8 x 2 1/2	TVL-3561	5.20
40.30-20	150.150-150	1 x 2	TVL-3438	2.50	16-20-20	300-250-250	1 x 3	TVL-3561.3	3.90
40.40-40	150.150-150	1 x 3 1/2	TVL-3440	2.60	* 40-80-40	300-250-250	1 3/8 x 3	TVL-3561.5	6.30
50-20-20	150.150-150	1 x 2 1/2	TVL-3440.4	3.85	60-30-30	300-250-250	1 3/8 x 2 1/2	TVL-3561.7	5.65
50.40-10	150.150-150	1 x 2 1/2	TVL-3441	2.55	100.60-20	300.250-250	1 3/8 x 4	TVL-3562	4.90
50.50-10	150.150-150	1 3/8 x 2	TVL-3441.7	4.05	200.60-20	300.250-250	1 3/8 x 4	TVL-3563	5.50
50.50-50	150.150-150	1 x 3	TVL-3442	3.00	* 20-20-20	300-300-25	1 x 2 1/2	TVL-3565	4.15
50.50-50	150.150-150	1 3/8 x 3	TVL-3442.1	4.50	40-15-20	300-300-25	1 x 3	TVL-3570	4.45
60.40-20	150.150-150	1 x 3	TVL-3443	2.75	* 40-20-20	300-300-25	1 3/8 x 2	TVL-3573	4.65
60-40-30	150.150-150	1 3/8 x 2	TVL-3443.1	4.20	140-10-100	300-300-25	1 3/8 x 3 1/2	TVL-3573.3	6.70
60-50-50	150.150-150	1 3/8 x 2	TVL-3443.2	4.65	30-30-25	300-300-50	1 x 3	TVL-3573.6	4.35
70.15-15	150.150-150	1 x 2 1/2	TVL-3443.3	2.70	100.10-60	300.300-50	1 3/8 x 2 1/2	TVL-3574	4.05
70.40-40	150.150-150	1 x 3	TVL-3443.4	4.05	125-20-100	300-300-50	1 3/8 x 3	TVL-3574.5	7.35
80-20-20	150.150-150	1 x 3 1/2	TVL-3443.6	4.20	125-60-40	300-300-50	1 3/8 x 4	TVL-3574.6	7.35
80.30-10	150.150-150	1 x 3	TVL-3443.8	2.75	200.20-10	300.300-100	1 3/8 x 4	TVL-3575	4.90
80.40-20	150.150-150	1 x 3	TVL-3444	2.90	40-40-20	300-300-150	1 3/8 x 2	TVL-3577	5.40
80-80-80	150.150-150	1 3/8 x 3	TVL-3446	5.65	10-10-15	300-300-250	1 x 2	TVL-3578	3.70
100.30-10	150.150-150	1 x 3	TVL-3447	3.05	10.10-10	300.300.300	1 x 2	TVL-3580	2.40
120.80-40	150.150-150	1 3/8 x 3 1/2	TVL-3448	3.80	60.20-10	300.300.300	1 3/8 x 2	TVL-3581	3.45
120.120-40	150.150-150	1 3/8 x 3	TVL-3448.2	4.05	* 80-20-10	300-300-300	1 3/8 x 2 1/2	TVL-3582	5.70
150-50-25	150.150-150	1 3/8 x 3	TVL-3449	5.40	80.40-40	300.300.300	1 3/8 x 2 1/2	TVL-3583	4.75
200.100-60	150.150-150	1 3/8 x 3 1/2	TVL-3450	4.55	120.50-40	300.300.300	1 3/8 x 4	TVL-3585	5.85
* 200-140-60	150.150-150	1 3/8 x 4	TVL-3451	6.70	160-60-20	300-300-300	1 3/8 x 4	TVL-3587	8.20
200.150-150	150.150-150	1 3/8 x 4	TVL-3452	7.50	200-140-20	300-300-300	1 3/8 x 4	TVL-3589	10.60
* 80-40-50	200-100-50	1 3/8 x 2 1/2	TVL-3460	4.60	4-100-40	350-25-25	1 x 2	TVL-3603	3.40
40-40-20	200-150-25	1 x 3	TVL-3461	3.90	5-100-40	350-25-25	1 x 2	TVL-3604	3.55
60.200-140	200.150-150	1 3/8 x 4	TVL-3461.4	4.80	40-100-25	350-50-25	1 3/8 x 2	TVL-3604.3	4.80
* 20-20-20	200-200-25	1 x 2	TVL-3462	3.45	10-50-100	350-100-75	1 x 3	TVL-3605	4.30
* 30-20-20	200-200-25	1 x 2	TVL-3463	3.85	20.50-100	350.100.75	1 x 3	TVL-3606	3.10
30-20-40	200-200-25	1 x 2	TVL-3464	3.85	10-10-250	350-150-15	1 x 2 1/2	TVL-3607	4.15
60.5-20	200.200-50	1 x 2 1/2	TVL-3467	2.50	10.50-100	350.150-50	1 x 3 1/2	TVL-3608	2.85
80.10-20	200.200-50	1 x 3	TVL-3471	2.80	40-80-500	350-200-25	1 3/8 x 3 1/2	TVL-3609	7.60
80-40-100	200-200-50	1 3/8 x 3	TVL-3472	5.25	125.5-100	350.200.75	1 3/8 x 3 1/2	TVL-3610	5.30
* 90-90-20	200-200-50	1 3/8 x 3	TVL-3474	5.70	50-10-500	350-250-5	1 3/8 x 2 1/2	TVL-3611	5.55
* 100-10-40	200-200-50	1 3/8 x 2	TVL-3475	4.75	50-10-1000	350-250-5	1 3/8 x 2 1/2	TVL-3611.2	6.10
30.20-40	200.200-150	1 x 2 1/2	TVL-3477	2.70	* 20-30-20	350-250-25	1 x 3	TVL-3612	4.20
* 20-20-20	200-200-200	1 x 2 1/2	TVL-3480	3.75	30-20-100	350-250-50	1 x 3	TVL-3613	4.90
30-20-20	200-200-200	1 x 2 1/2	TVL-3481	4.05	* 30-20-10	350-250-250	1 x 3 1/2	TVL-3615	4.50
50-30-30	200-200-200	1 3/8 x 2	TVL-3485	4.75	10-80-25	350-300-25	1 3/8 x 3	TVL-3617	5.10
* 40-40-20	250-150-25	1 3/8 x 2	TVL-3504	4.05	30.30-20	350.300-25	1 x 3	TVL-3620	3.15
80.40-50	250.150-50	1 3/8 x 2 1/2	TVL-3506	2.35	30-50-20	350-300-25	1 3/8 x 2 1/2	TVL-3621	5.40
* 15-20-20	250-150-150	1 x 2	TVL-3507	3.60	10-40-5	350-300-150	1 x 2 1/2	TVL-3618	4.30
60-40-20	250-200-25	1 3/8 x 2	TVL-3508	4.95	20-40-10	350-300-150	1 x 3 1/2	TVL-3619	4.75
15.15-20	250.250-25	1 x 2	TVL-3510	2.35	* 40-20-10	350-300-200	1 3/8 x 2	TVL-3623	4.95
* 20-15-20	250-250-25	1 x 2 1/2	TVL-3511	3.55	10-10-1400	350-350-3	1 3/8 x 3	TVL-3626	4.90
30.30-20	250.250-25	1 x 3	TVL-3513	2.80	* 10-10-20	350-350-25	1 x 2	TVL-3628	3.40
60-60-25	250-250-25	1 x 3 1/2	TVL-3514	5.70	15.10-20	350.350-25	1 x 2 1/2	TVL-3630	2.50
* 70-70-20	250-250-50	1 3/8 x 3	TVL-3515	5.85	* 15-15-20	350-350-25	1 x 2 1/2	TVL-3632	4.05
90.90-20	250.250-50	1 3/8 x 3	TVL-3516	4.60	20-5-30	350-350-25	1 x 2	TVL-3633	3.70
* 40-20-10	250-250-150	1 3/8 x 2	TVL-3517	4.15	20.5-100	350.350-25	1 x 3	TVL-3633.3	2.60
40-40-10	250-250-200	1 3/8 x 2	TVL-3520	4.45	20.10-20	350.350-25	1 x 2 1/2	TVL-3634	2.55
* 80-80-60	250-250-200	1 3/8 x 3 1/2	TVL-3525	6.75	20.20-20	350.350-25	1 x 2	TVL-3635	2.90
15-15-10	250-250-250	1 x 2	TVL-3530	3.70	30-10-20	350-350-25	1 x 2 1/2	TVL-3635.5	4.60
20-20-10	250-250-250	1 x 2	TVL-3531	3.75	30.20-40	350.350-25	1 x 2	TVL-3636	3.10
20.20-20	250.250-250	1 x 2	TVL-3532	2.60	30-20-40	350-350-25	1 x 3	TVL-3636.2	4.75
30-15-10	250-250-250	1 x 2 1/2	TVL-3534	4.05	30.30-20	350.350-25	1 3/8 x 2	TVL-3636.3	3.40
30-15-15	250-250-250	1 x 2	TVL-3535	4.15	40-5-30	350-350-25	1 3/8 x 2	TVL-3636.4	4.35
* 30-20-10	250-250-250	1 x 2	TVL-3537	4.05	40-40-50	350-350-25	1 3/8 x 2 1/2	TVL-3636.5	5.65
40-20-10	250-250-250	1 x 2 1/2	TVL-3539	4.30	90-40-50	350-350-25	1 3/8 x 3 1/2	TVL-3636.7	7.35
40.20-20	250.250-250	1 x 3 1/2	TVL-3540	2.90	200.10-50	350.350-25	1 3/8 x 4	TVL-3636.8	5.25
80.10-10	250.250-250	1 x 3	TVL-3543	3.20	10-5-30	350-350-50	1 x 2	TVL-3637	3.30
80.80-60	250.250-250	1 3/8 x 3	TVL-3545	4.90	* 10-5-150	350-350-50	1 x 3	TVL-3638	4.05
					20.5-150	350.350-50	1 x 3	TVL-3638.1	2.95

SPRAGUE CAPACITORS

TVL TWIST-LOK ELECTROLYTICS, continued

μ F	WVDC	Dia. x Lgth.	Cat. No.	List	μ F	WVDC	Dia. x Lgth.	Cat. No.	List
20-10-100	350-350-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3638.2	\$2.90	* 10-10-50	450-350-25	1 x 3	TVL-3721	\$3.60
80-10-40	350-350-50	1 $\frac{1}{8}$ x 3	TVL-3638.3	5.70	30-15-40	450-350-25	1 $\frac{1}{8}$ x 2	TVL-3722.3	3.20
80-10-100	350-350-50	1 $\frac{1}{8}$ x 3	TVL-3638.4	6.15	30-40-50	450-350-25	1 x 4	TVL-3723	3.70
150-4-30	350-350-50	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3638.5	4.75	* 20-80-100	450-350-50	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3722	6.75
* 30-20-100	350-350-75	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3629	6.00	* 15-20-20	450-350-250	1 $\frac{1}{8}$ x 2	TVL-3724	4.45
* 40-20-10	350-350-100	1 $\frac{1}{8}$ x 2	TVL-3638.6	4.30	20-15-10	450-350-300	1 x 3	TVL-3724.1	4.60
30-20-100	350-350-150	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3638.7	4.00	40-50-50	450-350-300	1 $\frac{1}{8}$ x 4	TVL-3724.2	7.30
40-20-10	350-350-100	1 x 3	TVL-3638.8	4.80	20-15-15	450-350-350	1 x 3	TVL-3724.3	4.90
* 40-40-100	350-350-200	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3638.9	7.20	20-40-10	450-350-350	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3724.4	3.50
80-40-100	350-350-200	1 $\frac{1}{8}$ x 4	TVL-3639	5.45	20-80-10	450-350-350	1 $\frac{1}{8}$ x 3	TVL-3724.5	4.25
100-60-20	350-350-200	1 $\frac{1}{8}$ x 4	TVL-3639.2	5.50	40-80-40	450-350-350	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3724.7	5.45
20-10-5	350-350-250	1 x 2 $\frac{1}{2}$	TVL-3639.4	2.55	50-80-10	450-350-350	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3724.8	7.35
* 30-10-20	350-350-250	1 x 3	TVL-3639.5	4.60	* 60-20-20	450-350-350	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3725	6.45
20-20-10	350-350-350	1 x 3	TVL-3639.7	4.45	* 60-40-20	450-350-350	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3725.2	6.90
30-20-10	350-350-350	1 x 2 $\frac{1}{2}$	TVL-3639.8	3.25	10-30-150	450-400-5	1 x 3	TVL-3725.5	4.50
50-50-50	350-350-350	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3639.9	7.30	30-50-40	450-400-25	1 $\frac{1}{8}$ x 3	TVL-3725.6	5.85
60-40-20	350-350-350	1 $\frac{1}{8}$ x 4	TVL-3640	4.25	60-80-20	450-400-250	1 $\frac{1}{8}$ x 4	TVL-3720	5.45
60-40-40	350-350-350	1 $\frac{1}{8}$ x 4	TVL-3640.2	7.05	10-30-30	450-400-300	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3726	5.05
60-50-50	350-350-350	1 $\frac{1}{8}$ x 4	TVL-3641	4.90	10-30-40	450-400-300	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3726.1	5.50
* 80-40-40	350-350-350	1 $\frac{1}{8}$ x 4	TVL-3641.5	7.95	4-40-40	450-400-300	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3728	6.90
80-60-60	350-350-350	1 $\frac{1}{8}$ x 4	TVL-3642	5.55	10-10-20	450-450-25	1 x 2 $\frac{1}{2}$	TVL-3729	2.40
90-40-20	350-350-350	1 $\frac{1}{8}$ x 4	TVL-3645	5.25	10-10-20	450-450-25	1 x 2	TVL-3731	2.40
40-200-60	400-200-200	1 $\frac{1}{8}$ x 4	TVL-3653	8.30	15-15-20	450-450-25	1 x 3	TVL-3733	4.05
10-5-40	400-300-25	1 x 2	TVL-3655	3.30	15-15-40	450-450-25	1 x 2 $\frac{1}{2}$	TVL-3734	2.75
* 60-40-20	400-300-25	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3663	6.30	20-10-20	450-450-25	1 x 3	TVL-3735	2.70
* 80-20-10	400-300-300	1 $\frac{1}{8}$ x 3	TVL-3667	6.40	* 20-15-20	450-450-25	1 x 3 $\frac{1}{2}$	TVL-3737	4.35
10-50-30	400-350-25	1 x 3 $\frac{1}{2}$	TVL-3670	4.65	20-20-20	450-450-25	1 x 3	TVL-3739	3.05
* 80-20-100	400-350-50	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3671	6.75	30-30-20	450-450-25	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3741	3.55
* 100-10-20	400-350-50	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3672	6.75	30-30-125	450-450-25	1 $\frac{1}{8}$ x 3	TVL-3743	3.95
20-15-10	400-350-350	1 x 3	TVL-3673	4.45	40-20-20	450-450-25	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3743.7	3.50
* 15-15-40	400-400-25	1 x 3	TVL-3675	4.20	40-40-20	450-450-25	1 $\frac{1}{8}$ x 3	TVL-3744	3.90
20-20-20	400-400-25	1 x 3	TVL-3678	2.85	40-40-40	450-450-25	1 $\frac{1}{8}$ x 3	TVL-3744.2	3.95
* 20-10-40	400-400-50	1 x 3	TVL-3682	4.00	80-10-125	450-450-25	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3745	4.45
* 30-10-150	400-400-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3682.4	5.10	80-40-100	450-450-25	1 $\frac{1}{8}$ x 4	TVL-3746	5.05
* 80-40-100	400-400-50	1 $\frac{1}{8}$ x 4	TVL-3683	7.50	10-10-40	450-450-50	1 x 2 $\frac{1}{2}$	TVL-3749	2.50
80-40-150	400-400-50	1 $\frac{1}{8}$ x 4	TVL-3684	5.25	20-10-50	450-450-50	1 x 3	TVL-3751	2.85
100-10-20	400-400-50	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3685	4.50	20-20-100	450-450-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3751.4	5.25
20-20-20	400-400-100	1 x 3	TVL-3686	4.45	30-10-150	450-450-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3752	3.50
* 20-10-10	400-400-350	1 x 3	TVL-3687	4.05	30-15-150	450-450-50	1 $\frac{1}{8}$ x 3	TVL-3753	3.70
20-10-40	400-400-350	1 x 4	TVL-3687.2	5.10	30-30-40	450-450-50	1 $\frac{1}{8}$ x 3	TVL-3753.6	5.50
20-20-10	400-400-350	1 x 3	TVL-3687.4	3.00	35-25-150	450-450-50	1 $\frac{1}{8}$ x 3	TVL-3753.3	3.95
60-30-20	400-400-350	1 $\frac{1}{8}$ x 3	TVL-3688	4.55	40-10-40	450-450-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3754	4.90
80-20-10	400-400-350	1 $\frac{1}{8}$ x 3	TVL-3689	4.30	40-10-100	450-450-50	1 $\frac{1}{8}$ x 3	TVL-3754.2	4.30
100-10-80	400-400-350	1 $\frac{1}{8}$ x 4	TVL-3689.3	6.10	40-30-25	450-450-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3754.5	5.65
10-10-10	400-400-400	1 x 2 $\frac{1}{2}$	TVL-3690	2.40	40-40-100	450-450-50	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3755	4.30
90-10-5	400-400-400	1 $\frac{1}{8}$ x 3	TVL-3696	4.40	60-40-75	450-450-50	1 $\frac{1}{8}$ x 4	TVL-3756	4.65
* 10-20-10	450-25-25	1 x 2	TVL-3701	3.25	80-20-100	450-450-50	1 $\frac{1}{8}$ x 4	TVL-3757	4.80
30-20-20	450-25-25	1 x 3	TVL-3702	4.15	30-30-125	450-450-75	1 $\frac{1}{8}$ x 3	TVL-3757.3	6.75
30-100-25	450-25-25	1 $\frac{1}{8}$ x 2	TVL-3703	4.45	10-10-50	450-450-100	1 $\frac{1}{8}$ x 2	TVL-3757.5	4.00
10-100-20	450-50-25	1 x 3	TVL-3703.5	3.85	* 30-20-30	450-450-150	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3757.7	5.25
* 80-100-20	450-50-50	1 $\frac{1}{8}$ x 3	TVL-3704	6.40	40-40-40	450-450-150	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3758	4.15
* 10-50-100	450-150-25	1 x 3	TVL-3705	4.15	40-10-80	450-450-200	1 $\frac{1}{8}$ x 3	TVL-3761	3.90
40-40-130	450-150-50	1 $\frac{1}{8}$ x 3	TVL-3706	3.70	40-10-100	450-450-200	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3762	4.15
40-50-100	450-150-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3706.4	5.50	40-40-60	450-450-200	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3763	4.45
40-100-50	450-150-50	1 $\frac{1}{8}$ x 3	TVL-3707	5.95	40-40-100	450-450-200	1 $\frac{1}{8}$ x 4	TVL-3764	4.95
10-50-100	450-150-75	1 x 3	TVL-3707.4	3.25	15-10-120	450-450-300	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3765	7.05
20-50-100	450-150-75	1 $\frac{1}{8}$ x 2	TVL-3707.5	5.10	* 15-15-10	450-450-300	1 x 3 $\frac{1}{2}$	TVL-3766	4.30
40-90-50	450-150-150	1 $\frac{1}{8}$ x 3	TVL-3708	4.00	15-5-15	450-450-350	1 x 3	TVL-3768	4.30
20-80-50	450-200-50	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3709	5.10	* 20-20-60	450-450-350	1 $\frac{1}{8}$ x 3 $\frac{1}{2}$	TVL-3770	7.60
20-60-100	450-250-25	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3711	3.65	* 40-10-10	450-450-350	1 $\frac{1}{8}$ x 3	TVL-3772	4.95
10-60-60	450-250-250	1 $\frac{1}{8}$ x 3	TVL-3711.8	6.00	40-40-60	450-450-350	1 $\frac{1}{8}$ x 4	TVL-3773	7.35
10-80-80	450-250-250	1 $\frac{1}{8}$ x 4	TVL-3712	4.15	40-40-80	450-450-350	1 $\frac{1}{8}$ x 4	TVL-3774	5.55
* 20-40-10	450-250-250	1 $\frac{1}{8}$ x 2	TVL-3713	4.75	* 60-20-40	450-450-350	1 $\frac{1}{8}$ x 4	TVL-3775	7.35
* 20-60-40	450-250-250	1 $\frac{1}{8}$ x 3	TVL-3713.2	5.95	10-10-10	450-450-450	1 x 3	TVL-3776	2.60
80-40-40	450-250-250	1 $\frac{1}{8}$ x 4	TVL-3713.4	4.80	15-15-10	450-450-450	1 x 3 $\frac{1}{2}$	TVL-3778	4.45
10-40-10	450-300-150	1 $\frac{1}{8}$ x 2	TVL-3713.7	3.10	15-15-15	450-450-450	1 x 3	TVL-3778.2	3.10
30-10-10	450-300-150	1 x 3	TVL-3714	4.45	20-10-10	450-450-450	1 x 3	TVL-3779	2.90
5-80-40	450-300-300	1 $\frac{1}{8}$ x 3	TVL-3714.7	4.15	20-20-20	450-450-450	1 $\frac{1}{8}$ x 2 $\frac{1}{2}$	TVL-3780	3.60
10-100-20	450-300-300	1 $\frac{1}{8}$ x 3	TVL-3715	6.50	30-10-10	450-450-450	1 $\frac{1}{8}$ x 2	TVL-3780.5	3.15
20-15-10	450-300-300	1 x 3 $\frac{1}{2}$	TVL-3716	4.30	30-20-20	450-450-450	1 $\frac{1}{8}$ x 3	TVL-3781	3.85
* 10-10-20	450-350-25	1 x 2 $\frac{1}{2}$	TVL-3719	3.45					

SPRAGUE CAPACITORS

TVL TWIST-LOK ELECTROLYTICS, continued

μF	WVDC	Dia.x Lgth.	Cat. No.	List
30-30-10	450-450-450	1 1/8 x 3	TVL-3781.5	5.65
30-30-30	450-450-450	1 1/8 x 3 1/2	TVL-3782	4.35
40-10-10	450-450-450	1 1/8 x 3	TVL-3783	3.35
40-30-20	450-450-450	1 1/8 x 3	TVL-3784	4.30
40-40-10	450-450-450	1 1/8 x 2 1/2	TVL-3785	4.15
40-40-20	450-450-450	1 1/8 x 3	TVL-3786	4.45
40-40-40	450-450-450	1 1/8 x 3 1/2	TVL-3787	4.90
*50-30-30	450-450-450	1 1/8 x 3 1/2	TVL-3787.7	7.15
50-40-30	450-450-450	1 1/8 x 3 1/2	TVL-3788	4.90
60-10-10	450-450-450	1 1/8 x 3	TVL-3788.5	5.85
60-20-20	450-450-450	1 1/8 x 3	TVL-3789	4.60
60-30-10	450-450-450	1 1/8 x 3	TVL-3790	4.50
60-40-20	450-450-450	1 1/8 x 3 1/2	TVL-3791	5.00
*80-40-10	450-450-450	1 1/8 x 4	TVL-3792	7.60
80-40-20	450-450-450	1 1/8 x 4	TVL-3793	5.40
20-50-20	475-50-25	1 x 3	TVL-3801	2.75
80-80-50	475-150-50	1 1/8 x 4	TVL-3801.5	4.85
10-100-40	475-200-50	1 1/8 x 2 1/2	TVL-3800	5.05
40-40-100	475-250-50	1 1/8 x 3	TVL-3802	6.45
*40-40-100	475-250-100	1 1/8 x 3	TVL-3803	6.15
*40-40-10	475-250-250	1 1/8 x 3 1/2	TVL-3804	6.00
20-20-40	475-300-25	1 1/8 x 2	TVL-3805	4.65
*40-40-100	475-300-50	1 1/8 x 3 1/2	TVL-3805.3	6.75
*40-80-10	475-300-300	1 1/8 x 3 1/2	TVL-3806	7.20
10-100-25	475-350-25	1 1/8 x 3	TVL-3806.4	5.55
10-4-100	475-350-50	1 x 2 1/2	TVL-3806.6	3.90
20-10-5	475-350-150	1 x 2 1/2	TVL-3806.8	4.20
10-4-40	475-350-250	1 1/8 x 2	TVL-3807	2.75
20-20-10	475-350-350	1 x 3	TVL-3809	4.80
40-40-25	475-400-50	1 1/8 x 3	TVL-3813	6.45
10-45-100	475-450-50	1 1/8 x 3	TVL-3815	5.50
40-40-20	475-450-50	1 1/8 x 3	TVL-3815.2	6.60
10-40-100	475-450-200	1 1/8 x 3	TVL-3815.3	4.20
40-20-20	475-450-450	1 1/8 x 3	TVL-3815.6	6.75
40-80-10	475-450-450	1 1/8 x 4	TVL-3816	5.50
40-40-500	475-475-10	1 1/8 x 3 1/2	TVL-3816.2	8.20
10-10-5	475-475-25	1 x 2 1/2	TVL-3816.3	3.70
10-10-100	475-475-25	1 x 3	TVL-3816.4	4.00
20-10-20	475-475-25	1 x 3	TVL-3816.5	4.35
10-10-150	475-475-50	1 x 3	TVL-3816.7	4.50
20-10-20	475-475-50	1 x 3	TVL-3816.8	4.45
20-10-100	475-475-50	1 1/8 x 2	TVL-3817	3.25
25-10-20	475-475-50	1 x 3	TVL-3818	4.45
20-10-100	475-475-400	1 1/8 x 4	TVL-3819	5.25
*20-20-60	475-475-400	1 1/8 x 3 1/2	TVL-3820	7.20
20-20-60	475-475-450	1 1/8 x 4	TVL-3822	4.85
*10-10-10	475-475-475	1 x 3	TVL-3835	4.05
30-30-10	475-475-475	1 1/8 x 3	TVL-3839	6.00
30-30-20	475-475-475	1 1/8 x 3	TVL-3840	4.45
*40-10-10	475-475-475	1 1/8 x 3	TVL-3841	5.80
40-20-20	475-475-475	1 1/8 x 3	TVL-3842	7.15
40-30-10	475-475-475	1 1/8 x 3	TVL-3842.6	4.50
40-30-30	475-475-475	1 1/8 x 4	TVL-3843	5.15
*40-35-10	475-475-475	1 1/8 x 3	TVL-3844	6.85
10-80-10	500-150-150	1 x 3 1/2	TVL-3902	4.30
10-100-40	500-200-50	1 1/8 x 2 1/2	TVL-3903	5.05
*40-40-100	500-250-50	1 1/8 x 3	TVL-3905	6.45
20-20-40	500-300-25	1 1/8 x 2	TVL-3907	4.65
20-40-100	500-300-25	1 1/8 x 2 1/2	TVL-3908	5.40
5-100-200	500-300-150	1 1/8 x 4	TVL-3908.4	7.75
40-40-25	500-400-50	1 1/8 x 3	TVL-3909	6.45
20-40-100	500-450-25	1 1/8 x 3	TVL-3910	5.70
80-20-100	500-450-50	1 1/8 x 4	TVL-3910.6	7.65
*10-40-40	500-450-450	1 1/8 x 3 1/2	TVL-3911	6.25
30-20-20	500-500-25	1 1/8 x 2 1/2	TVL-3920	5.35
10-10-100	500-500-50	1 x 3 1/2	TVL-3926	4.30
20-10-100	500-500-50	1 x 4	TVL-3928	3.30
30-10-20	500-500-50	1 1/8 x 2 1/2	TVL-3930	4.65
40-40-100	500-500-200	1 1/8 x 4	TVL-3935	5.80
10-10-5	500-500-350	1 x 2 1/2	TVL-3939	3.75

μF	WVDC	Dia.x Lgth.	Cat. No.	List
20-20-60	500-500-400	1 1/8 x 3 1/2	TVL-3942	\$4.80
10-10-10	500-500-500	1 x 3	TVL-3952	2.70
30-20-20	500-500-500	1 1/8 x 3	TVL-3956	4.20
40-10-10	500-500-500	1 1/8 x 3	TVL-3962	3.90
40-40-10	500-500-500	1 1/8 x 3 1/2	TVL-3965	5.05

QUADRUPLE UNITS

μF	WVDC	Dia.x Lgth.	Cat. No.	List
40-40-40-40	25-25-25-25	1 1/8 x 2	TVL-4210	\$4.15
5-5-25-100	75-75-25-15	1 1/8 x 2	TVL-4351	4.00
50-20-150-30	150-150-15-15	1 1/8 x 2	TVL-4408	3.15
40-40-50-200	150-150-25-10	1 1/8 x 2	TVL-4408.4	4.75
20-20-160-40	150-150-25-25	1 1/8 x 2	TVL-4409	3.20
40-40-100-100	150-150-25-25	1 1/8 x 2	TVL-4410	5.05
40-40-200-100	150-150-25-25	1 1/8 x 2	TVL-4410.3	5.35
50-40-160-40	150-150-25-25	1 1/8 x 2	TVL-4410.7	3.55
80-20-160-40	150-150-25-25	1 1/8 x 2	TVL-4411	5.55
80-30-100-40	150-150-25-25	1 1/8 x 2	TVL-4411.2	5.20
40-40-100-100	150-150-50-50	1 1/8 x 2	TVL-4411.5	5.55
30-20-20-200	150-150-150-10	1 1/8 x 2	TVL-4412	4.65
40-40-20-200	150-150-150-10	1 1/8 x 2	TVL-4413	3.20
50-30-25-200	150-150-150-10	1 1/8 x 2	TVL-4413.4	5.05
60-40-20-200	150-150-150-10	1 1/8 x 2	TVL-4414	3.45
80-80-10-200	150-150-150-10	1 1/8 x 2 1/2	TVL-4414.3	5.85
60-20-20-1000	150-150-150-15	1 1/8 x 2 1/2	TVL-4414.5	7.00
20-20-20-20	150-150-150-25	1 1/8 x 2	TVL-4414.7	4.35
30-20-20-100	150-150-150-25	1 1/8 x 2	TVL-4414.8	4.75
30-30-30-40	150-150-150-25	1 1/8 x 2	TVL-4415	3.10
40-20-20-20	150-150-150-25	1 1/8 x 2	TVL-4417	2.95
40-30-20-100	150-150-150-25	1 1/8 x 2	TVL-4418	4.80
40-40-30-20	150-150-150-25	1 1/8 x 2	TVL-4420	3.10
40-40-30-120	150-150-150-25	1 1/8 x 2	TVL-4420.3	5.25
40-40-40-20	150-150-150-25	1 1/8 x 2	TVL-4421	3.15
40-40-40-100	150-150-150-25	1 1/8 x 2	TVL-4422	5.05
40-40-40-160	150-150-150-25	1 1/8 x 2	TVL-4423	3.55
50-20-20-200	150-150-150-25	1 1/8 x 2	TVL-4424	3.50
50-30-30-100	150-150-150-25	1 1/8 x 2	TVL-4424.5	3.40
50-50-50-20	150-150-150-25	1 1/8 x 2	TVL-4425	3.55
50-50-50-100	150-150-150-25	1 1/8 x 2	TVL-4425.3	5.65
60-30-10-60	150-150-150-25	1 1/8 x 2	TVL-4426	4.60
60-40-20-20	150-150-150-25	1 1/8 x 2	TVL-4427	4.95
60-60-10-60	150-150-150-25	1 1/8 x 2	TVL-4428	5.25
70-40-40-25	150-150-150-25	1 1/8 x 2 1/2	TVL-4429	5.20
80-40-30-100	150-150-150-25	1 1/8 x 2 1/2	TVL-4430	5.55
80-40-40-20	150-150-150-25	1 1/8 x 2	TVL-4431	3.55
80-40-40-40	150-150-150-25	1 1/8 x 2 1/2	TVL-4432	3.60
80-40-40-100	150-150-150-25	1 1/8 x 2 1/2	TVL-4434	3.75
80-50-50-25	150-150-150-25	1 1/8 x 2 1/2	TVL-4435	5.70
80-60-40-100	150-150-150-25	1 1/8 x 2 1/2	TVL-4436	5.95
100-90-60-200	150-150-150-25	1 1/8 x 3	TVL-4437	4.95
125-125-40-100	150-150-150-25	1 1/8 x 3	TVL-4438	7.45
250-200-10-25	150-150-150-50	1 1/8 x 4	TVL-4440	5.35
40-40-40-30	150-150-150-150	1 1/8 x 2	TVL-4441	3.30
50-40-30-30	150-150-150-150	1 1/8 x 2	TVL-4442	5.10
50-50-50-50	150-150-150-150	1 1/8 x 2 1/2	TVL-4443	5.85
80-50-20-20	150-150-150-150	1 1/8 x 2 1/2	TVL-4444	5.55
100-80-60-40	150-150-150-150	1 1/8 x 3	TVL-4445	4.65
*40-20-10-20	200-200-200-25	1 1/8 x 2	TVL-4470	4.80
40-40-50-80	250-250-150-150	1 1/8 x 2 1/2	TVL-4508	6.15
100-40-10-100	250-250-250-50	1 1/8 x 3 1/2	TVL-4516	5.15
80-60-40-20	250-250-250-150	1 1/8 x 4	TVL-4524	7.65
40-40-20-20	250-250-250-250	1 1/8 x 2 1/2	TVL-4536	6.00
100-40-80-20	300-50-25-25	1 1/8 x 3	TVL-4555	6.85
20-150-150-100	300-150-150-30	1 1/8 x 4	TVL-4557	5.30
10-200-140-30	300-150-150-150	1 1/8 x 3 1/2	TVL-4559	5.10
10-200-200-30	300-150-150-150	1 1/8 x 4	TVL-4559.2	5.35
100-60-10-20	300-200-150-50	1 1/8 x 3 1/2	TVL-4559.5	4.85
120-20-20-100	300-250-25-30	1 1/8 x 3 1/2	TVL-4562	7.90
200-20-100-20	300-250-50-25	1 1/8 x 4	TVL-4563	5.80
*40-40-40-40	300-250-250-25	1 1/8 x 2 1/2	TVL-4560	6.60
100-40-125-50	300-300-150-50	1 1/8 x 4	TVL-4560.4	9.30
140-10-10-100	300-300-150-25	1 1/8 x 3 1/2	TVL-4560.6	5.05

SPRAGUE CAPACITORS

TVL TWIST-LOK ELECTROLYTICS, continued

μF	WVDC	Dia.x Lgth.	Cat. No.	List	μF	WVDC	Dia.x Lgth.	Cat. No.	List
100.10-200.30	300.300-150.150	1 3/8 x 4	TVL-4561	\$5.90	50-20-100-25	400-200-150-25	1 3/8 x 2 1/2	TVL-4636	\$7.00
140.10-200.30	300.300-150.150	1 3/8 x 4	TVL-4561.3	6.25	20-20-10-40	400-250-250-25	1 3/8 x 2 1/2	TVL-4636.5	5.05
150.20-10-250	300.300-250.50	1 3/8 x 4	TVL-4564	6.05	40.120.10-150	400.250.250.50	1 3/8 x 4	TVL-4637	5.90
*10-10-10-20	300-300-300-25	1 3/8 x 2	TVL-4565	4.45	*10-100-10-100	400-300-75-25	1 3/8 x 3 1/2	TVL-4638	7.05
40-30-20-50	300-300-300-25	1 3/8 x 2 1/2	TVL-4568	6.25	30-40-50-200	400-300-250-150	1 3/8 x 4	TVL-4640	9.00
60.40-20.50	300.300-300.25	1 3/8 x 3 1/2	TVL-4570	4.70	20-30-20-20	400-300-300-25	1 3/8 x 2 1/2	TVL-4640.3	5.70
*30-30-15-30	300-300-300-50	1 3/8 x 3	TVL-4572	5.50	80-40-20-10	400-300-300-300	1 3/8 x 4	TVL-4641	8.35
60-30-10-60	300-300-300-50	1 3/8 x 2 1/2	TVL-4573	6.30	*20-40-100-10	400-350-50-50	1 3/8 x 3	TVL-4650	6.30
150.30.30.150	300.300-300.50	1 3/8 x 4	TVL-4574	6.10	20-10-10-20	400-350-200-25	1 3/8 x 2	TVL-4652	4.80
40.40.40.20	300.300-300.150	1 3/8 x 3	TVL-4575	4.90	40.80.100.25	400.350.200.50	1 3/8 x 3 1/2	TVL-4654	5.95
120.40.40.10	300.300-300.250	1 3/8 x 4	TVL-4577	6.30	40-10-80-10	400-350-250-250	1 3/8 x 4	TVL-4657	7.00
40.20.10.10	300.300-300.300	1 3/8 x 2	TVL-4578	3.95	*10-50-30-30	400-350-350-25	1 3/8 x 3	TVL-4658	6.60
40.40.20.10	300.300-300.300	1 3/8 x 3 1/2	TVL-4579	4.55	35-25-25-20	400-350-350-25	1 3/8 x 2 1/2	TVL-4658.4	6.85
40.40.30.20	300.300-300.300	1 3/8 x 3	TVL-4580	4.85	*80-40-10-10	400-350-350-25	1 3/8 x 4	TVL-4659	7.95
60.40.10.10	300.300-300.300	1 3/8 x 2 1/2	TVL-4583	4.55	20.50.40.80	400.350.350.50	1 3/8 x 3	TVL-4660	5.00
200.20-20-20	300.300-300.300	1 3/8 x 4	TVL-4590	6.25	30-60-20-100	400-350-350-50	1 3/8 x 4	TVL-4661	7.50
20-150-80-20	350-150-150-25	1 3/8 x 3	TVL-4603	6.85	10-10-25-25	400-400-25-25	1 3/8 x 2	TVL-4662	4.20
60-60-30-160	350-150-150-25	1 3/8 x 3	TVL-4603.2	6.85	20-5-20-20	400-400-25-25	1 3/8 x 2	TVL-4662.4	4.60
40-50-20-80	350-150-150-50	1 3/8 x 3	TVL-4603.4	6.10	50-25-100-20	400-400-50-25	1 3/8 x 3	TVL-4663	7.00
20-60-160-40	350-200-25-25	1 3/8 x 2	TVL-4603.6	6.00	50.40.100.100	400.400.50.25	1 3/8 x 4	TVL-4663.2	5.10
15-80-40-200	350-200-200-25	1 3/8 x 3	TVL-4603.8	6.75	80-40-100-20	400-400-50-25	1 3/8 x 4	TVL-4663.4	8.40
20-100-100-10	350-200-200-100	1 3/8 x 4	TVL-4604	7.50	100.10-30-20	400.400-50.50	1 3/8 x 3 1/2	TVL-4663.5	5.10
20-100-100-20	350-200-200-200	1 3/8 x 4	TVL-4604.3	7.75	*20-10-10-25	400-400-100-25	1 3/8 x 2	TVL-4663.7	4.65
20-40-10-250	350-300-150-50	1 3/8 x 3	TVL-4604.5	6.90	20.10-20.25	400.400-200.25	1 3/8 x 2	TVL-4663.8	3.30
20.150.10.250	350.300-150.50	1 3/8 x 4	TVL-4604.7	6.10	*10-10-40-10	400-400-200-50	1 3/8 x 2	TVL-4664	4.80
*40-40-20-20	350-300-300-25	1 3/8 x 3 1/2	TVL-4605	6.75	*40-30-80-10	400-400-200-200	1 3/8 x 3 1/2	TVL-4664.4	7.45
30.30.50.100	350.300-300.75	1 3/8 x 3	TVL-4611	5.25	40-10-80-10	400-400-250-250	1 3/8 x 3 1/2	TVL-4665	7.05
160.60.10.4	350.300-300.300	1 3/8 x 4	TVL-4605.5	6.30	5-5-50-80	400-400-300-250	1 3/8 x 3	TVL-4665.3	7.00
40.10.100.25	350.350-25.25	1 3/8 x 2	TVL-4606	3.75	50.20-20.25	400.400-350.25	1 3/8 x 3	TVL-4665.5	4.45
60.4.100.40	350.350-25.25	1 3/8 x 2 1/2	TVL-4607	3.80	60-40-40-10	400-400-350-50	1 3/8 x 3 1/2	TVL-4666	8.65
60.20.80.100	350.350-150.50	1 3/8 x 4	TVL-4608	4.90	*20-20-20-20	400-400-400-25	1 3/8 x 2 1/2	TVL-4667	5.80
40-20-10-20	350-350-200-25	1 3/8 x 2	TVL-4608.5	5.85	60-30-30-150	400-400-400-25	1 3/8 x 4	TVL-4668	8.70
80-20-20-200	350-350-200-50	1 3/8 x 3 1/2	TVL-4608.7	8.10	80.40.10.20	400.400-400.25	1 3/8 x 4	TVL-4669	5.30
60.40-60.10	350.350-200.150	1 3/8 x 3 1/2	TVL-4609	5.05	80.40.30.40	400.400-400.25	1 3/8 x 4	TVL-4670	5.95
80-60-60-20	350-350-200-150	1 3/8 x 4	TVL-4609.3	8.40	90-40-10-40	400-400-400-25	1 3/8 x 4	TVL-4670.3	8.70
50-30-8-20	350-350-250-200	1 3/8 x 2 1/2	TVL-4609.6	6.75	40-40-40-150	400-400-400-50	1 3/8 x 4	TVL-4670.5	8.55
*15-15-15-15	350-350-300-25	1 3/8 x 2	TVL-4610	5.20	90.20.10.50	400.400-400.50	1 3/8 x 4	TVL-4670.7	5.40
*35-35-10-20	350-350-300-25	1 3/8 x 2 1/2	TVL-4610.6	6.25	80-20-10-100	400-400-400-50	1 3/8 x 3 1/2	TVL-4671	7.90
*10-10-10-10	350-350-300-300	1 3/8 x 2	TVL-4612	4.65	80.40.30.4	400.400-400.350	1 3/8 x 4	TVL-4672	5.90
*10-10-10-20	350-350-350-25	1 3/8 x 2	TVL-4618	4.45	*30-30-20-20	400-400-400-400	1 3/8 x 3	TVL-4672.8	7.30
20.10-5.10	350.350-350.25	1 3/8 x 2	TVL-4620	3.10	*40-35-10-10	400-400-400-400	1 3/8 x 3	TVL-4673	6.70
30.10-5.200	350.350-350.25	1 3/8 x 2	TVL-4620.3	3.80	50.40-30.20	400.400-400.400	1 3/8 x 4	TVL-4674	5.65
*30-20-20-20	350-350-350-25	1 3/8 x 2 1/2	TVL-4620.5	6.15	*80-10-10-10	400-400-400-400	1 3/8 x 3 1/2	TVL-4675	7.05
40-20-5-10	350-350-350-25	1 3/8 x 2 1/2	TVL-4621	5.70	80.25-10.10	400.400-400.400	1 3/8 x 4	TVL-4680	5.25
*40-20-20-25	350-350-350-25	1 3/8 x 2 1/2	TVL-4621.3	6.40	*40-40-30-10	450-150-50-50	1 3/8 x 3	TVL-4695	5.65
40.40-20.20	350.350-350.25	1 3/8 x 3	TVL-4621.6	4.65	10-80-40-100	450-200-200-50	1 3/8 x 3	TVL-4700	6.40
40.40.30.10	350.350-350.25	1 3/8 x 3	TVL-4622	4.95	20.80.20.50	450.200-200.50	1 3/8 x 3	TVL-4701	4.10
40.40.40.40	350.350-350.25	1 3/8 x 3	TVL-4622.3	5.20	60-40-10-80	450-250-150-50	1 3/8 x 3 1/2	TVL-4701.5	7.20
15-15-15-50	350-350-350-50	1 3/8 x 2	TVL-4623	5.65	*40-40-40-20	450-250-250-25	1 3/8 x 3	TVL-4702	6.70
40-30-10-50	350-350-350-50	1 3/8 x 3	TVL-4624	6.60	60.80.40.20	450.250-250.150	1 3/8 x 4	TVL-4702.3	5.65
40.40.40.150	350.350-350.50	1 3/8 x 4	TVL-4628	5.65	10.100-10-100	450.300-75.25	1 3/8 x 3	TVL-4702.6	4.75
50-40-20-100	350-350-350-50	1 3/8 x 3	TVL-4628.3	7.75	*10-10-60-100	450-300-200-50	1 3/8 x 3	TVL-4705	5.70
50-40-40-160	350-350-350-50	1 3/8 x 4	TVL-4629	8.65	*10-40-40-100	450-300-250-50	1 3/8 x 3 1/2	TVL-4703	6.60
*60-25-25-100	350-350-350-50	1 3/8 x 3 1/2	TVL-4630	7.75	30-40-50-200	450-300-250-150	1 3/8 x 4	TVL-4703.3	9.00
60.30.30.150	350.350-350.50	1 3/8 x 3	TVL-4630.4	5.50	25.100-10.60	450.300-300.50	1 3/8 x 3	TVL-4703.5	5.30
70.40.10.50	350.350-350.50	1 3/8 x 3	TVL-4631	5.25	40.40.40.20	450.300-300.150	1 3/8 x 3	TVL-4703.7	4.90
100.10.10.20	350.350-350.50	1 3/8 x 3 1/2	TVL-4632	5.15	10.100.20.20	450.300-300.200	1 3/8 x 3	TVL-4704	5.05
100.20.10.20	350.350-350.50	1 3/8 x 3 1/2	TVL-4633	5.40	10-100-20-20	450-300-300-300	1 3/8 x 3	TVL-4705.2	7.90
100.40.30.50	350.350-350.50	1 3/8 x 4	TVL-4634	6.55	10-40-80-10	450-350-200-200	1 3/8 x 3 1/2	TVL-4705.4	7.05
140-20-10-100	350-350-350-50	1 3/8 x 4	TVL-4634.2	9.25	10.40.100.100	450.350-250.50	1 3/8 x 3	TVL-4705.5	5.55
90.30-5.100	350.350-350.75	1 3/8 x 3 1/2	TVL-4625	6.15	40-30-15-50	450-350-300-50	1 3/8 x 3	TVL-4705.8	6.55
*80-60-40-20	350-350-350-150	1 3/8 x 4	TVL-4634.4	9.15	10-100-10-20	450-350-350-25	1 3/8 x 3	TVL-4706	7.80
20-10-5-60	350-350-350-200	1 3/8 x 2 1/2	TVL-4634.5	5.50	10.60.40.25	450.350-350.25	1 3/8 x 4	TVL-4707	4.60
30.10-5.100	350.350-350.200	1 3/8 x 2 1/2	TVL-4634.7	4.55	*20-15-15-20	450-350-350-25	1 3/8 x 2 1/2	TVL-4708	5.70
40.20.20.10	350.350-350.350	1 3/8 x 2 1/2	TVL-4635	4.35	20.80-50.100	450.350-350.50	1 3/8 x 4	TVL-4711	6.00
40.40.40.40	350.350-350.350	1 3/8 x 4	TVL-4635.3	6.00	30-40-40-10	450-350-350-200	1 3/8 x 3 1/2	TVL-4708.3	7.75
80.60.40.20	350.350-350.350	1 3/8 x 4	TVL-4635.7	6.40	*80-10-30-40	450-400-300-150	1 3/8 x 4	TVL-4710	7.90
90.40.30.30	350.350-350.350	1 3/8 x 4	TVL-4635.8	6.80	80.10.40.30	450.400-300.300	1 3/8 x 4	TVL-4710.2	5.80
					*5-60-50-20	450-400-350-25			

SPRAGUE CAPACITORS

TVL TWIST-LOK ELECTROLYTICS, continued

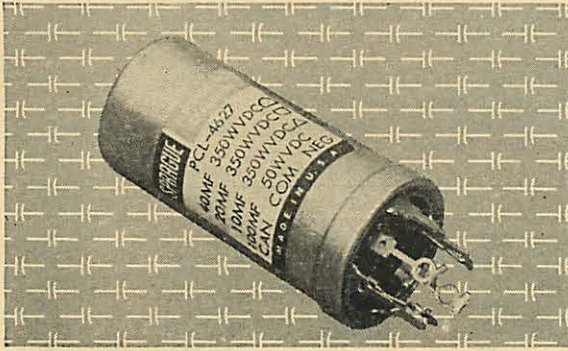
μF	WVDC	Dia. x Lgth.	Cat. No.	List	μF	WVDC	Dia. x Lgth.	Cat. No.	List
*10-40-40-100	450-400-400-50	1 3/8 x 3 1/2	TVL-4710.7	\$7.30	30-20-20-10	450-450-450-450	1 3/8 x 3	TVL-4767	\$6.90
60-40-20-20	450-400-400-400	1 3/8 x 4	TVL-4711.3	8.70	30-30-15-10	450-450-450-450	1 3/8 x 3 1/2	TVL-4769	7.05
10-10-20-20	450-450-25-25	1 3/8 x 2	TVL-4711.6	4.45	30-30-20-20	450-450-450-450	1 3/8 x 3	TVL-4769.4	5.20
20-10-100-50	450-450-25-25	1 3/8 x 2	TVL-4711.8	5.35	450-450-450-450	450-450-450-450	1 3/8 x 4	TVL-4770	7.95
20.15-20.20	450.450.25.25	1 3/8 x 2	TVL-4712	3.45	35-35-10-5	450.450.450.450	1 3/8 x 3 1/2	TVL-4771	4.60
30.30.125.125	450.450.25.25	1 3/8 x 3	TVL-4712.3	4.85	40.10.10.10	450.450.450.450	1 3/8 x 3	TVL-4771.3	4.10
*30-10-150-30	450-450-50-50	1 3/8 x 3	TVL-4712.5	6.15	40-20-20-10	450-450-450-450	1 3/8 x 3	TVL-4771.6	7.20
20.20.60.100	450.450.150.25	1 3/8 x 2 1/2	TVL-4712.7	4.25	40.35.10.10	450.450.450.450	1 3/8 x 3	TVL-4771.8	4.80
40.40.125.125	450.450.150.25	1 3/8 x 4	TVL-4712.8	5.70	40.40.4.4	450-450-450-450	1 3/8 x 3 1/2	TVL-4772	4.65
					40.40.20.20	450-450-450-450	1 3/8 x 4	TVL-4773	5.55
10.10.60.100	450.450.200.50	1 3/8 x 3	TVL-4713	3.85	40.40.30.30	450-450-450-450	1 3/8 x 4	TVL-4774	6.05
35.25.20.100	450.450.200.50	1 3/8 x 3	TVL-4714	4.65	40.40.40.40	450-450-450-450	1 3/8 x 4	TVL-4775	6.45
40.40.100.60	450.40.200.200	1 3/8 x 4	TVL-4714.3	6.05	60.20.20.20	450-450-450-450	1 3/8 x 4	TVL-4778	5.65
10-10-10-50	450-450-300-25	1 3/8 x 2	TVL-4716	4.75	60.30.10.2	450-450-450-450	1 3/8 x 3	TVL-4779	5.10
*40-40-10-50	450-450-300-50	1 3/8 x 3 1/2	TVL-4714.7	7.05	70-10-10-5	450-450-450-450	1 3/8 x 3	TVL-4780	7.15
*20-20-30-30	450-450-300-300	1 3/8 x 3 1/2	TVL-4715	6.75	80.10.10.10	450.450.450.450	1 3/8 x 4	TVL-4783	5.05
*20-20-30-30	450-450-350-350	1 3/8 x 3	TVL-4717	7.60					
*40-10-35-10	450-450-350-350	1 3/8 x 3 1/2	TVL-4718	6.90	40.40.50.80	475.250.150.50	1 3/8 x 3 1/2	TVL-4793	5.00
40-20-80-10	450-450-350-350	1 3/8 x 4	TVL-4719	8.70	20.40.100.80	475.300.50.25	1 3/8 x 3	TVL-4800	4.45
40.40.30.30	450.450.350.350	1 3/8 x 4	TVL-4720	5.90	10.100.10.100	475.300.300.25	1 3/8 x 3 1/2	TVL-4802	4.90
10.10.10.20	450.450.450.25	1 3/8 x 2	TVL-4723	3.15	20.80.20.10	475.300.300.300	1 3/8 x 3 1/2	TVL-4801	5.00
					*10-40-80-100	475-350-200-100	1 3/8 x 3 1/2	TVL-4802.6	7.20
10-10-10-100	450-450-450-25	1 3/8 x 2	TVL-4723.3	4.90	20.40.80.100	475.350.200.100	1 3/8 x 4	TVL-4802.7	5.45
15-10-10-20	450-450-450-25	1 3/8 x 3	TVL-4723.5	4.95	10.40.80.100	475.350.300.100	1 3/8 x 4	TVL-4802.8	5.55
20-10-10-100	450-450-450-25	1 3/8 x 2	TVL-4724	5.55	10-30-5-80	475-350-350-50	1 3/8 x 2 1/2	TVL-4803	5.55
20.20.20.20	450.450.450.25	1 3/8 x 2 1/2	TVL-4724.2	4.15	10.140.4.100	475.350.350.50	1 3/8 x 4	TVL-4803.3	5.85
30-15-15-40	450-450-450-25	1 3/8 x 2 1/2	TVL-4724.4	6.25	10.130.20.10	475.350.350.350	1 3/8 x 4	TVL-4803.4	6.00
30-20-20-20	450-450-450-25	1 3/8 x 3	TVL-4724.5	6.60	20-60-40-10	475-350-350-350	1 3/8 x 3 1/2	TVL-4803.7	7.80
30-30-10-20	450-450-450-25	1 3/8 x 3	TVL-4724.7	6.55	30.130.10.10	475.350.350.350	1 3/8 x 4	TVL-4803.8	6.40
30.30.10.125	450.450.450.25	1 3/8 x 3	TVL-4725	4.70	10-40-100-10	475-400-50-25	1 3/8 x 2 1/2	TVL-4804	6.00
*30-30-20-20	450-450-450-25	1 3/8 x 3	TVL-4725.4	7.00	10.40.4.100	475.400.350.50	1 3/8 x 2 1/2	TVL-4805	4.05
40-10-10-250	450-450-450-25	1 3/8 x 3	TVL-4726	7.05	5.70.25.5	475.400.400.400	1 3/8 x 3 1/2	TVL-4805.5	5.05
40-15-10-25	450-450-450-25	1 3/8 x 3	TVL-4729	6.15	10-10-80-50	475-450-200-60	1 3/8 x 3	TVL-4806	5.80
40-20-10-20	450-450-450-25	1 3/8 x 3	TVL-4730	6.40	25-20-20-100	475-450-300-50	1 3/8 x 3	TVL-4809	6.90
40.20.20.20	450.450.450.25	1 3/8 x 3	TVL-4731	4.60	25-20-40-100	475-450-300-50	1 3/8 x 3 1/2	TVL-4810	7.45
40.20.20.40	450.450.450.25	1 3/8 x 3	TVL-4732	4.65	10.60.30.125	475.450.400.50	1 3/8 x 4	TVL-4811	5.55
40.30.10.20	450.450.450.25	1 3/8 x 3 1/2	TVL-4734	4.50	10.50.30.30	475.450.450.25	1 3/8 x 3	TVL-4813	4.75
40.40.10.20	450.450.450.25	1 3/8 x 3 1/2	TVL-4736	4.70	10.40.10.100	475.450.450.50	1 3/8 x 2 1/2	TVL-4814	4.30
40.40.20.20	450.450.450.25	1 3/8 x 3 1/2	TVL-4737	5.00					
40.40.40.40	450.450.450.25	1 3/8 x 3	TVL-4739	5.50	15.15.80.40	475.475.300.50	1 3/8 x 3	TVL-4815	4.80
50-40-5-20	450-450-450-25	1 3/8 x 3	TVL-4739.3	7.20	50-30-20-20	475-475-300-300	1 3/8 x 4	TVL-4816	8.55
60.40.40.10	450.450.450.25	1 3/8 x 4	TVL-4739.4	6.00	40.10.4.40	475.475.350.300	1 3/8 x 3	TVL-4817	4.95
60.50.5.20	450.450.450.25	1 3/8 x 4	TVL-4739.5	5.35	20.10.20.100	475.475.450.25	1 3/8 x 2 1/2	TVL-4818	4.20
80.40.40.40	450.450.450.25	1 3/8 x 4	TVL-4739.6	6.45	10-5-80-40	475-475-450-50	1 3/8 x 3	TVL-4819	7.35
					30-30-10-20	475-475-475-25	1 3/8 x 3	TVL-4821	6.85
10-10-10-150	450-450-450-50	1 3/8 x 2 1/2	TVL-4739.7	5.55	*40-20-10-10	475-475-475-25	1 3/8 x 3	TVL-4822	7.30
20.20.20.100	450.450.450.50	1 3/8 x 2 1/2	TVL-4740	4.55	80-30-10-20	475-475-475-25	1 3/8 x 4	TVL-4824	8.65
30.30.15.30	450.450.450.50	1 3/8 x 3	TVL-4742	4.55	20.20.10.10	475.475.475.300	1 3/8 x 2 1/2	TVL-4826	4.30
30-30-15-100	450-450-450-50	1 3/8 x 3 1/2	TVL-4742.2	7.35	50.30.10.20	475.475.475.300	1 3/8 x 3 1/2	TVL-4827	5.60
40.20.10.100	450.450.450.50	1 3/8 x 3 1/2	TVL-4743	4.60	*10-10-10-10	475-475-475-475	1 3/8 x 2	TVL-4830	5.25
40.40.10.25	450.450.450.50	1 3/8 x 3	TVL-4745	4.70	20.20.10.10	475.475.475.475	1 3/8 x 2 1/2	TVL-4832	4.35
40.40.10.50	450.450.450.50	1 3/8 x 4	TVL-4746	4.80	20.20.20.20	475.475.475.475	1 3/8 x 3	TVL-4834	5.10
60.40.10.25	450.450.450.50	1 1/2 x 4	TVL-4746.5	5.25	40-10-10-10	475-475-475-475	1 3/8 x 3	TVL-4838	7.00
40.40.10.100	450.450.450.100	1 3/8 x 3 1/2	TVL-4747	5.55	40.20.10.10	475.475.475.475	1 3/8 x 3	TVL-4840	5.10
*10-10-10-10	450-450-450-150	1 3/8 x 2	TVL-4750	4.75					
60.10.10.20	450.450.450.150	1 3/8 x 3	TVL-4753	4.55	10-100-30-100	500-300-300-25	1 3/8 x 3 1/2	TVL-4910	7.80
*35-35-10-10	450-450-450-200	1 3/8 x 3 1/2	TVL-4755	6.90	5-100-10-200	500-300-300-150	1 3/8 x 4	TVL-4912	8.80
40-10-10-100	450-450-450-200	1 3/8 x 4	TVL-4755.4	7.35	20-80-20-10	500-300-300-300	1 3/8 x 3 1/2	TVL-4914	7.50
40-40-30-10	450-450-450-200	1 3/8 x 4	TVL-4756	8.05	30.10.150.30	500.450.50.50	1 3/8 x 3	TVL-4917	4.20
*30-10-10-10	450-450-450-250	1 3/8 x 2 1/2	TVL-4756.3	5.80	10.10.10.10	500.500.500.500	1 3/8 x 2	TVL-4940	3.50
*40-10-10-40	450-450-450-250	1 3/8 x 3 1/2	TVL-4756.6	6.70	40.40.8.8	500.500.500.500	1 3/8 x 4	TVL-4944	5.70
40.20.10.100	450.450.450.250	1 3/8 x 4	TVL-4757	5.85					
60-10-10-40	450-450-450-250	1 3/8 x 3 1/2	TVL-4757.5	7.30					
40.10.10.40	450.450.450.350	1 3/8 x 3	TVL-4758	4.75					
40-20-20-20	450-450-450-350	1 3/8 x 3	TVL-4758.4	7.50					
40-40-10-10	450-450-450-350	1 3/8 x 3 1/2	TVL-4759	7.20					
5.5.5.5	450.450.450.450	1 3/8 x 2	TVL-4759.7	3.00					
10.10.10.10	450.450.450.450	1 3/8 x 2	TVL-4760	3.35					
20.10.10.10	450.450.450.450	1 3/8 x 2 1/2	TVL-4761	3.70					
20.20.20.20	450.450.450.450	1 3/8 x 3	TVL-4763	4.70					
25-20-20-20	450-450-450-450	1 3/8 x 3 1/2	TVL-4763.4	7.30					
30.15.15.15	450.450.450.450	1 3/8 x 3	TVL-4766	4.45					

CLOSED-TOP INSULATING TUBES

Order with capacitors as required. List Price \$.10 each

SPRAGUE CAPACITORS

PCL PRINT-LOK^{*} ELECTROLYTICS WITH UNIVERSAL PRINTED WIRING BOARD MOUNTING BASE



- Will Fit All Sets with Just a Touch of the Pliers—Replace Standard Twist-Prong Units as Well as Printed Wiring Board Types
- Simple Instructions Supplied with Each Unit
- Hermetically Sealed in Aluminum Cans for Long Life and Dependable Performance
- Withstand Extremely High Temperatures, High Surge Voltages, and High Ripple Currents
- Designed for 85°C (185°F) Operation

★Trademark

μF	WVDC	D. x L.	Cat. No.	List
140	150	1 x 2½	PCL-1428	\$2.15
375	165	1¾ x 3½	PCL-1440	3.00
160	200	1¾ x 2¾	PCL-1473	3.15
20	450	1 x 2	PCL-1714	1.80
250-250	16-16	1 x 2	PCL-2170	2.75
800-250	16-16	1 x 2½	PCL-2180	3.35
50-30	150-150	1 x 2	PCL-2432	2.00
80-30	150-150	1 x 2	PCL-2441	2.25
80-40	150-150	1 x 3	PCL-2442	2.30
200-5	150-150	1¾ x 2½	PCL-2444	2.70
2-20	300-25	1 x 2	PCL-2553	1.45
10-10	300-50	1 x 2	PCL-2556.8	1.60
150-100	300-150	1¾ x 4	PCL-2560.3	4.50
10-10	300-300	1¾ x 2	PCL-2565	1.75
70-30-100	150-150-10	1 x 2	PCL-3411	2.80
80-60-250	150-150-10	1 x 2½	PCL-3414.3	3.40
80-60-400	150-150-10	1 x 3	PCL-3414.4	3.65
90-40-400	150-150-10	1 x 3	PCL-3414.5	3.50
80-20-20	150-150-25	1 x 2½	PCL-3415.5	2.70

μF	WVDC	D. x L.	Cat. No.	List
40-20-20	150-150-25	1 x 2	PCL-3422	\$2.30
70-30-20	150-150-25	1 x 2½	PCL-3431.1	2.70
30-30-30	150-150-150	1 x 2	PCL-3435.1	2.50
40-40-20	150-150-150	1 x 2¼	PCL-3439	2.50
50-30-20	150-150-150	1 x 2	PCL-3440.5	2.60
50-40-30	150-150-150	1 x 2½	PCL-3441.2	2.70
60-60-40	150-150-150	1¾ x 2	PCL-3443.5	3.10
70-15-15	150-150-150	1 x 2	PCL-3443.3	2.70
10-10-20	300-50-25	1 x 2	PCL-3554	2.10
150-60-200	300-200-150	1¾ x 4	PCL-3560.8	5.95
150-100-30	300-300-300	1¾ x 4	PCL-3586	6.35
125-5-100	350-150-10	1¾ x 3½	PCL-3606.5	4.60
40-30-20	400-350-300	1¾ x 2½	PCL-3672.5	3.95
290-30-10-100	150-150-150-10	1¾ x 3¾	PCL-4414.4	4.50
50-40-10-50	150-150-150-25	1¾ x 2	PCL-4424.6	3.15
100-40-10-50	150-150-150-25	1¾ x 2	PCL-4436.5	3.70
60-60-40-10	150-150-150-150	1¾ x 2	PCL-4443.5	3.65
100-60-60-40	350-350-200-75	1¾ x 4	PCL-4608.9	6.55
40-20-10-100	350-350-350-50	1¾ x 2½	PCL-4627	4.35
40-30-20-20	400-350-350-350	1¾ x 2½	PCL-4708.5	4.95

SCREWBASE 'LYTICS

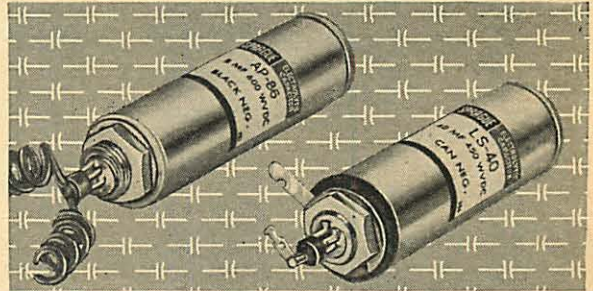
Type PLS—The Capacitor Sections Have Separate Positive Leads and a Common Negative Lead

Type LS and SC—Lug Connection is Positive, Can is Negative

Type CL—The Can is Insulated from the Sections . . . There are Separate Positive and Negative Leads

Type WR—These Capacitors are Designed to Replace Wet Electrolytics . . . They Will Withstand Extremely High A-C Ripples . . . Have Lug Terminals

Type AP—Sections are Connected in Series . . . Insulated Leads



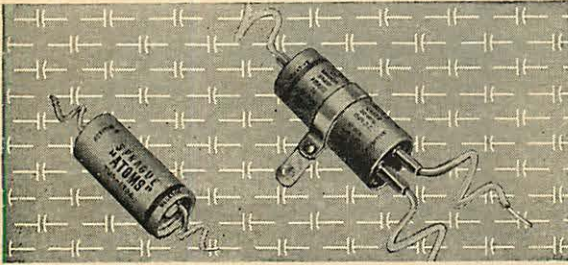
μF	Diam. x Length	Cat. No.	List
TYPE PLS—450 WVDC, 525 V Surge			
4	1¾ x 2¾	PLS-4	\$2.00
8	1¾ x 2¾	PLS-8	2.20
12	1¾ x 2¾	PLS-12	2.40
16	1¾ x 2¾	PLS-16	2.45
20	1¾ x 2¾	PLS-20	2.70
25	1¾ x 3¾	PLS-25	2.90
30	1¾ x 2¾	PLS-30	3.00
40	1¾ x 3¾	PLS-40	3.15
4+8	1¾ x 2¾	PLS-48	2.95
8+8	1½ x 2¾	PLS-88	3.00
8+16	1½ x 2¾	PLS-816	3.30
16+16	1½ x 3¾	PLS-216	3.55
8+8+8	1½ x 2¾	PLS-888	5.00

μF	Diam. x Length	Cat. No.	List
TYPE LS—450 WVDC, 525 V Surge			
8	1¾ x 2¾	LS-8	\$2.20
12	1¾ x 2¾	LS-12	2.40
16	1¾ x 2¾	LS-16	2.45
20	1¾ x 2¾	LS-20	2.70
25	1¾ x 3¾	LS-25	2.90
30	1¾ x 3¾	LS-30	3.00
40	1¾ x 3¾	LS-40	3.15
8+8	1¾ x 2¾	LS-88	3.00
TYPE CL—475 WVDC, 600 V Surge			
8	1¾ x 4¾	CL-8	2.75
16	1½ x 4¾	CL-16	3.15
8+8	1½ x 4¾	CL-88	4.10

μF	Diam. x Length	Cat. No.	List
TYPE SC—475 WVDC, 600 V Surge			
4	1 x 3¾	SC-4	\$2.55
8	1¾ x 4¾	SC-8	2.75
12	1¾ x 4¾	SC-12	2.95
16	1½ x 4¾	SC-16	3.15
8+8	1¾ x 4¼	SC-88	4.10
TYPE WR—500 WVDC, 600 V Surge			
8	1¾ x 2¾	WR-8	2.85
16	1¾ x 2¾	WR-16	3.30
25	1¾ x 2¾	WR-25	3.75
TYPE AP—600 WVDC, 800 V Surge			
4	1 x 4¾	AP-46	2.95
8	1¾ x 4¾	AP-86	3.15
16	1½ x 4¾	AP-16	3.75

SPRAGUE CAPACITORS

ATOM[®] ELECTROLYTICS



- The Smallest Dependable Dry Electrolytic—The Only Small Size Capacitor Designed for 85°C (185°F) operation In Voltages To 450 WVDC
- Whether For AC-DC Sets, Auto Radios, Home Radio-phonograph Combinations, Or TV Sets, The SPRAGUE Line Will Handle All Your Replacement Requirements—No Dual Inventory Problems
- Small Enough To Fit Anywhere, Work Anywhere
- Have Low Leakage And Long Shelf Life
- Will Withstand High Temperatures, High Ripple Currents, High Surge Voltages
- Metal Case Construction with Outer Insulating Tube

μF	WVDC	Diam. x Length*	Cat. No.	List
SINGLE UNITS				
50	6	3/8 x 1 1/4	TVA-1100	\$.95
100	6	1/2 x 1 1/8	TVA-1101	1.20
250	6	5/8 x 1 7/16	TVA-1102	1.35
500	6	5/8 x 2 3/16	TVA-1103	1.55
1000	6	1 1/16 x 2 3/16	TVA-1104	1.90
1500	6	1 3/16 x 2 11/16	TVA-1105	2.10
2000	6	1 3/8 x 2 11/16	TVA-1106	2.30
100	12	7/16 x 1 3/8	TVA-1130	1.20
250	12	5/8 x 1 11/16	TVA-1131	1.45
500	12	3/4 x 1 11/16	TVA-1132	1.70
1000	12	1 3/16 x 2 3/16	TVA-1133	2.25
100	15	5/8 x 1 3/8	TVA-1160	1.25
250	15	5/8 x 1 11/16	TVA-1161	1.55
500	15	1 1/16 x 2 3/16	TVA-1162	1.75
1000	15	7/8 x 2 3/16	TVA-1163	2.30
2	25	3/8 x 1 1/4	TVA-1201	.90
5	25	3/8 x 1 1/4	TVA-1203	1.00
10	25	3/8 x 1 1/4	TVA-1204	1.00
25	25	3/8 x 1 1/4	TVA-1205	1.00
50	25	7/16 x 1 3/8	TVA-1206	1.10
100	25	7/16 x 1 11/16	TVA-1207	1.35
250	25	3/4 x 1 11/16	TVA-1208	1.70
500	25	7/8 x 2 3/16	TVA-1209	2.30
1	50	3/8 x 1 1/4	TVA-1300	.90
2	50	3/8 x 1 1/4	TVA-1301	.90
5	50	3/8 x 1 1/4	TVA-1303	1.00
10	50	3/8 x 1 1/4	TVA-1304	1.00
20	50	7/16 x 1 3/8	TVA-1305.5	1.00
25	50	7/16 x 1 3/8	TVA-1306	1.05
50	50	7/16 x 1 11/16	TVA-1308	1.20
100	50	5/8 x 1 11/16	TVA-1310	1.40
150	50	3/4 x 1 11/16	TVA-1311	1.55
250	50	1 1/16 x 1 11/16	TVA-1312	1.75
500	50	1 x 1 5/16	TVA-1315	2.40
4	150	3/8 x 1 1/4	TVA-1402	1.00
5	150	3/8 x 1 1/4	TVA-1403	1.00
8	150	3/8 x 1 3/4	TVA-1405	1.05
10	150	3/8 x 1 3/4	TVA-1406	1.05
12	150	1/2 x 1 5/8	TVA-1407	1.10
16	150	7/16 x 1 11/16	TVA-1409	1.15
20	150	7/16 x 1 11/16	TVA-1410	1.20
25	150	5/8 x 1 11/16	TVA-1411	1.25
30	150	5/8 x 1 11/16	TVA-1412	1.30
40	150	3/4 x 1 11/16	TVA-1413	1.35
50	150	1 3/16 x 1 11/16	TVA-1414	1.40
60	150	7/8 x 1 11/16	TVA-1415	1.50
80	150	7/8 x 1 5/8	TVA-1418	1.60
100	150	7/8 x 2 3/16	TVA-1420	1.75
150	150	1 x 2 3/16	TVA-1422	1.90
200	150	1 1/16 x 3 1/16	TVA-1423†	2.20
300	150	1 3/8 x 3 3/8	TVA-1425†	2.55
200	200	1 3/8 x 3 3/8	TVA-1480†	2.90
4	250	7/16 x 1 5/8	TVA-1501	1.00
8	250	1/2 x 1 5/8	TVA-1503	1.15
10	250	5/16 x 1 11/16	TVA-1504	1.20

μF	WVDC	Diam. x Length*	Cat. No.	List
12	250	5/16 x 1 11/16	TVA-1505	\$1.25
16	250	5/8 x 1 11/16	TVA-1507	1.30
20	250	1 1/16 x 1 11/16	TVA-1508	1.35
30	250	1 1/16 x 2 3/16	TVA-1510	1.45
40	250	3/4 x 2 3/16	TVA-1511	1.55
50	250	3/4 x 2 3/16	TVA-1512	1.70
60	250	1 3/16 x 2 3/16	TVA-1513	1.80
140	300	1 3/8 x 3 3/8	TVA-1575†	3.15
4	350	1/2 x 1 5/8	TVA-1601	1.05
8	350	5/8 x 1 11/16	TVA-1603	1.20
10	350	1 1/16 x 1 11/16	TVA-1604	1.25
12	350	1 1/16 x 1 11/16	TVA-1605	1.30
16	350	3/4 x 1 11/16	TVA-1607	1.40
20	350	1 3/16 x 1 11/16	TVA-1608	1.45
30	350	1 3/16 x 2 3/16	TVA-1610	1.65
40	350	7/8 x 2 7/16	TVA-1611	1.75
60	350	1 x 2 7/16	TVA-1613	1.95
1	450	7/16 x 1 1/8	TVA-1700	1.10
2	450	7/16 x 1 5/8	TVA-1701	1.10
4	450	5/8 x 1 11/16	TVA-1702	1.15
8	450	1 1/16 x 1 11/16	TVA-1704	1.25
10	450	1 1/16 x 1 11/16	TVA-1705	1.30
12	450	3/4 x 1 11/16	TVA-1706	1.35
16	450	3/4 x 2 3/16	TVA-1708	1.40
20	450	3/4 x 2 3/16	TVA-1709	1.55
30	450	7/8 x 2 3/16	TVA-1711	1.70
40	450	7/8 x 2 11/16	TVA-1712	1.80
50	450	7/8 x 3 3/16	TVA-1713	2.10
60	450	1 x 3 1/16	TVA-1714	2.35
80	450	1 x 3 1/16	TVA-1716	2.80
100	450	1 3/8 x 4 7/8	TVA-1718	3.20
10	475	3/4 x 1 5/16	TVA-1802	1.35
20	475	7/8 x 2 7/16	TVA-1804	1.60
8	500	7/8 x 1 11/16	TVA-1902	1.30
10	500	7/8 x 1 11/16	TVA-1903	1.35
16	500	1 1/16 x 2 3/16	TVA-1905	1.50
20	500	1 x 2 3/16	TVA-1906	1.60
8	600	1 x 3 1/16	TVA-1962	2.10
10	600	1 x 3 1/16	TVA-1963	2.20
16	600	1 x 4 1/16	TVA-1965	2.55
20	600	1 x 4 1/16	TVA-1966	2.70
DUAL UNITS (COMMON NEGATIVE—3 LEADS)				
10-10	25-25	7/8 x 1 7/16	TVA-2210	1.40
10-10	50-50	7/8 x 1 7/16	TVA-2315	1.40
8-8	150-150	7/8 x 1 7/16	TVA-2415	1.50
16-16	150-150	7/8 x 1 7/16	TVA-2420	1.80
20-12	150-150	7/8 x 1 7/16	TVA-2425	1.60
20-20	150-150	7/8 x 1 7/16	TVA-2428	1.65
30-20	150-150	7/8 x 1 11/16	TVA-2421	1.70
30-30	150-150	7/8 x 1 11/16	TVA-2434	1.80
40-20	150-150	7/8 x 1 11/16	TVA-2438	1.75
40-30	150-150	7/8 x 1 5/16	TVA-2442	1.80
40-40	150-150	7/8 x 1 5/16	TVA-2445	1.85
50-30	150-150	7/8 x 1 5/16	TVA-2450	1.95
50-50	150-150	7/8 x 2 7/16	TVA-2453	2.10

Add 1/16" to diameter and 1/8" to length to allow for outer insulating tube on all units except those marked (†) which are of cardboard construction.

SPRAGUE CAPACITORS

ATOM ELECTROLYTICS, continued

μF	WVDC	Diam. x Length*	Cat. No.	List
80-30	150-150	7/8 x 2 1/16	TVA-2460	\$2.20
80-40	150-150	7/8 x 2 1/16	TVA-2461	2.20
80-50	150-150	7/8 x 2 1/16	TVA-2462	2.35
100-100	150-150	1 3/8 x 3 3/8	TVA-2464†	3.20
200-5	150-150	1 x 3 3/8	TVA-2467†	2.65
20-20	250-250	7/8 x 1 13/16	TVA-2515	1.85
40-10	250-250	7/8 x 2 1/16	TVA-2520	2.05
80-10	250-250	1 5/16 x 3 3/8	TVA-2525	2.55
120-80	250-250	1 3/8 x 3 3/8	TVA-2535†	4.00
140-5	350-350	1 1/4 x 3 3/8	TVA-2640†	4.15
80-100	450-50	1 3/8 x 4 3/8	TVA-2711†	3.70
8-8	450-450	7/8 x 1 13/16	TVA-2720	1.70
10-10	450-450	7/8 x 1 13/16	TVA-2722	1.85
16-8	450-450	7/8 x 2 1/16	TVA-2725	2.00
20-20	450-450	7/8 x 2 1/16	TVA-2730	2.50
30-30	450-450	1 x 3 3/8	TVA-2735	3.00
40-40	450-450	1 x 3 1/16	TVA-2740	3.40
50-30	450-450	1 x 3 1/16	TVA-2743	3.40

DUAL UNITS (SEPARATE SECTIONS—4 LEADS)

20-20	150-150	1 x 2 3/8	TU-220 †	2.05
40-20	150-150	1 1/16 x 2 3/8	TU-420 †	2.20
16-16	250-250	1 x 2 7/8	TU-216 †	2.20
8-8	450-450	1 1/16 x 3 3/8	TU-88 †	2.15
16-16	450-450	1 3/8 x 3 3/8	TU-1616†	2.80

TRIPLE UNITS

30-30-100	150-150-12	7/8 x 1 13/16	TVA-3419	2.30
20-20-20	150-150-25	7/8 x 1 1/16	TVA-3415	2.05
40-20-20	150-150-25	7/8 x 1 13/16	TVA-3422.9	2.15
40-30-20	150-150-25	7/8 x 1 13/16	TVA-3423	2.20
40-40-20	150-150-25	7/8 x 2 1/16	TVA-3425	2.25
40-40-100	150-150-25	7/8 x 2 1/16	TVA-3427	2.45

*Add 1/16" to diameter and 1/8" to length to allow for outer insulating tube on all units except those marked (†) which are of cardboard construction.

HLVB HIGH-MF 'LYTICS

- Very High Capacitance Ratings Available
- Designed for Filter Circuits in High Gain Amplifier Equipment
- Housed in Molded Bakelite Case

μF	WVDC	Diam. x Length	Cat. No.	List
500	6	1 1/16 x 2 3/4	HLVB-56	\$3.05
1000	6	1 1/16 x 2 3/4	HLVB-106	3.40
1500	6	1 1/16 x 2 3/4	HLVB-156	3.60
2000	6	1 1/16 x 2 3/4	HLVB-206	3.80
4000	10	1 7/16 x 2 3/8	HLVB-4010	4.75
6000	10	1 7/16 x 2 3/8	HLVB-6010	7.50
10000	10	1 13/16 x 4 3/8	HLVB-10010	8.25
500	12	1 7/16 x 2 3/4	HLVB-512	3.20
1000	12	1 7/16 x 2 3/4	HLVB-1012	3.75
1500	12	1 7/16 x 2 3/4	HLVB-1512	3.95
2000	12	1 7/16 x 2 3/4	HLVB-2012	4.15
500	15	1 7/16 x 2 3/4	HLVB-515	3.25
1000	15	1 7/16 x 2 3/4	HLVB-1015	3.80
1500	15	1 7/16 x 2 3/4	HLVB-1515	4.00
2000	15	1 7/16 x 2 3/4	HLVB-2015	4.70
4000	15	1 7/16 x 4 3/8	HLVB-4015	7.10
6000	15	1 13/16 x 4 3/8	HLVB-6015	8.05
6000	20	2 1/16 x 4 3/8	HLVB-6020	8.65
500	25	1 7/16 x 2 3/4	HLVB-525	3.80
1000	25	1 7/16 x 2 3/4	HLVB-1025	4.85
2000	25	1 7/16 x 4 3/8	HLVB-2025	5.75
4000	25	1 7/16 x 4 3/8	HLVB-4025	7.95
500	50	1 7/16 x 3 3/8	HLVB-550	4.25
1000	50	1 13/16 x 3 3/8	HLVB-1050	7.00
2000	50	1 13/16 x 4 3/8	HLVB-2050	9.10
3000	50	1 13/16 x 4 3/8	HLVB-3050	11.50
4000	50	2 1/16 x 4 3/8	HLVB-4050	12.50
1000	150	1 13/16 x 4 3/8	HLVB-10150	10.50
500	200	1 13/16 x 4 3/8	HLVB-5200	9.80

	Cat. No.	Diam.	List
VERTICAL MOUNTING CLAMPS for Cylindrical Capacitors	CMC-22A	1 1/16	\$.25
	CMC-28A	1 13/16	.40
	CMC-32A	2 1/16	.60

μF	WVDC	D. x L.	Cat. No.	List
50-30-20	150-150-25	7/8 x 2 1/16	TVA-3430	\$2.35
50-30-100	150-150-25	7/8 x 2 1/16	TVA-3432	2.55
50-30-200	150-150-25	1 x 2 1/16	TVA-3433	2.75
50-50-20	150-150-25	1 5/16 x 2 1/16	TVA-3436	2.50
80-20-100	150-150-25	1 1/4 x 2 3/8	TVA-3437†	2.75
80-40-20	150-150-25	1 x 1 13/16	TVA-3437.1	2.65
20-20-20	150-150-150	7/8 x 1 13/16	TVA-3440	2.20
30-30-30	150-150-150	7/8 x 2 1/16	TVA-3444	2.35
40-30-20	150-150-150	7/8 x 2 1/16	TVA-3448	2.35
40-40-40	150-150-150	1 x 2 1/16	TVA-3451	2.45
50-30-20	150-150-150	1 x 2 1/16	TVA-3453	2.45
80-40-20	150-150-150	1 x 2 1/16	TVA-3455	2.75
80-10-100	300-250-50	1 3/8 x 3 3/8	TVA-3556†	3.60
120-40-10	300-300-250	1 1/4 x 3 3/8	TVA-3563†	4.85
140-5-200	350-350-200	1 1/2 x 5 3/8	TVA-3620†	6.70
5-80-40	450-400-400	1 3/8 x 4 1/8	TVA-3712†	4.55
12-12-20	450-450-25	1 x 1 13/16	TVA-3716	2.30
20-20-20	450-450-25	1 x 2 1/16	TVA-3718	2.90
40-40-20	450-450-25	1 x 3 1/16	TVA-3720	3.80

QUADRUPLE UNITS

120-40-40-10	300-300-300-250	1 3/8 x 4 3/8	TVA-4584†	6.20
140-5-200-30	350-300-200-150	1 1/2 x 4 7/8	TVA-4576†	6.05
140-5-200-30	350-300-200-200	1 1/2 x 5 1/8	TVA-4607†	7.65
80-60-40-20	350-350-300-150	1 1/2 x 4 3/8	TVA-4618†	5.90
80-10-40-100	400-400-300-50	1 3/8 x 4 1/8	TVA-4659†	5.45
10-80-40-100	450-300-250-50	1 3/8 x 4 1/8	TVA-4705†	4.80
20-120-40-100	450-300-250-50	1 3/8 x 4 3/8	TVA-4706†	6.15
10-80-40-40	450-300-250-250	1 3/8 x 4 3/8	TVA-4708†	4.95
10-20-20-10	450-300-300-300	1 3/8 x 3 3/8	TVA-4712†	3.50
20-20-20-10	450-450-450-450	1 3/8 x 3 3/8	TVA-4742†	4.25
40-20-20-10	450-450-450-450	1 3/8 x 4 3/8	TVA-4748†	4.70
40 40-20-20	450-450-450-450	1 1/2 x 4 1/4	TVA-4750†	5.45

PE OCTAL-BASE 'LYTICS

- For Applications where Rapid Changing of Capacitors is Desired



- Will Fit Standard Octal-Base Tube Sockets

- Hermetically Sealed in Metal Cans for Long Life

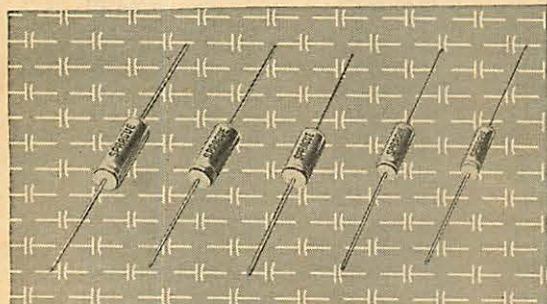
Terminal Code		
Sections	-	+
Single		5
Dual	1	3,5
Triple	1	3,5,7
Quadruple	Gnd Lug	1,3,5,7

- Will Stand Up Under High Temperatures, High Ripple Currents, High Surge Voltages

μF	WVDC	Diam. x Lgth.	Cat. No.	List
100	350	1 3/8 x 3	PE-1636	\$5.85
10	450	1 3/16 x 2 1/2	PE-1705	4.05
20	450	1 3/16 x 2 1/2	PE-1714	4.30
40	450	1 3/8 x 2 1/2	PE-1725	4.55
80	450	1 3/8 x 3 1/2	PE-1730	5.55
20-20	150-150	1 3/16 x 2 1/2	PE-2415	4.20
40-40	150-150	1 3/16 x 2 1/2	PE-2428	4.40
10-10	450-450	1 3/16 x 2 1/2	PE-2750	4.40
20-20	450-450	1 3/8 x 2 1/2	PE-2755	5.05
40-40	450-450	1 3/8 x 3 1/2	PE-2764	5.95
10-10-10	450-450-450	1 3/16 x 2 1/2	PE-3776	5.10
20-20-20	450-450-450	1 3/8 x 3	PE-3780	6.10
30-30-10-20	450-450-450-50	1 3/8 x 3 1/2	PE-4741	6.85

SPRAGUE CAPACITORS

TE LITTL-LYTIC® ELECTROLYTICS



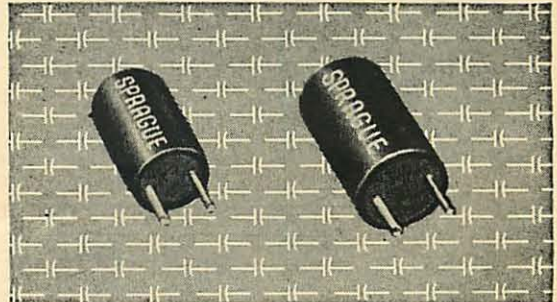
- These Ultra-Small Electrolytic Capacitors Withstand Temperatures up to 85°C (185°F)
- Sprague Littl-Lytics Deliver Reliability in Reasonably Priced Subminiature Electrolytic Capacitors
- All-welded Construction. No Pressure Joints to Cause "Open" or Intermittent Circuits
- Furnished with Clear Plastic Outer Insulating Sleeves*
- Extremely Low Leakage Current, Long Shelf Life
- Excellent, Dependable Replacement Capacitors for Transistorized Equipment Presently on the Market

μF	D. x L.*	Cat. No.	List	μF	D. x L.*	Cat. No.	List	μF	D. x L.*	Cat. No.	List
1 WVDC				10 WVDC				25 WVDC			
5	1/4 x 1/16	TE-1010	\$1.25	10	1/4 x 1/16	TE-1114	\$1.35	1	1/4 x 1/16	TE-1200	\$1.25
3 WVDC				15	1/4 x 1/16	TE-1116	1.35	2	1/4 x 1/16	TE-1201	1.30
1	1/4 x 1/16	TE-1050	1.25	25	1/4 x 1/16	TE-1118	1.35	3	1/4 x 1/16	TE-1201.1	1.30
2	1/4 x 1/16	TE-1051	1.25	50	3/8 x 1/16	TE-1119	1.50	4	1/4 x 1/16	TE-1201.2	1.30
3	1/4 x 1/16	TE-1052	1.25	100	3/8 x 1/16	TE-1119.3	1.70	5	1/4 x 1/16	TE-1202	1.40
4	1/4 x 1/16	TE-1052.1	1.25	200	3/8 x 1/4	TE-1119.6	2.00	6	1/4 x 1/16	TE-1203	1.40
5	1/4 x 1/16	TE-1052.2	1.25	12 WVDC				8	1/4 x 1/16	TE-1203.5	1.45
6	1/4 x 1/16	TE-1052.3	1.25	1	1/4 x 1/16	TE-1120	1.25	10	1/4 x 1/16	TE-1204	1.45
8	1/4 x 1/16	TE-1052.5	1.25	2	1/4 x 1/16	TE-1121	1.25	15	3/16 x 1/16	TE-1205	1.45
10	1/4 x 1/16	TE-1053	1.25	3	1/4 x 1/16	TE-1122	1.25	20	3/8 x 1/16	TE-1206	1.50
15	1/4 x 1/16	TE-1053.5	1.25	4	1/4 x 1/16	TE-1123	1.25	25	3/8 x 1/16	TE-1207	1.55
20	1/4 x 1/16	TE-1054	1.25	5	1/4 x 1/16	TE-1127	1.35	35	3/8 x 1/16	TE-1208	1.65
25	1/4 x 1/16	TE-1055	1.25	6	1/4 x 1/16	TE-1127.1	1.35	50	3/8 x 1/16	TE-1209	1.80
35	1/4 x 1/16	TE-1056	1.25	8	1/4 x 1/16	TE-1127.3	1.35	75	3/8 x 1/4	TE-1210	1.95
40	1/4 x 1/16	TE-1057	1.25	10	1/4 x 1/16	TE-1128	1.35	100	3/8 x 1/2	TE-1211	2.10
50	1/4 x 1/16	TE-1058	1.25	15	1/4 x 1/16	TE-1129	1.40	50 WVDC			
75	5/16 x 1/16	TE-1059	1.40	20	1/4 x 1/16	TE-1130	1.40	1	1/4 x 1/16	TE-1300	1.30
100	5/16 x 1/16	TE-1059.5	1.40	25	1/4 x 1/16	TE-1131	1.40	2	1/4 x 1/16	TE-1301	1.35
110	3/8 x 1/16	TE-1060	1.40	35	5/16 x 1/16	TE-1132	1.45	3	1/4 x 1/16	TE-1302	1.35
150	3/8 x 1/16	TE-1061	1.45	50	3/8 x 1/16	TE-1133	1.55	4	1/4 x 1/16	TE-1302.1	1.35
200	3/8 x 1/16	TE-1064	1.50	75	3/8 x 1/16	TE-1134	1.65	5	1/4 x 1/16	TE-1303	1.45
250	3/8 x 1/16	TE-1065	1.60	100	3/8 x 1/16	TE-1135	1.75	6	5/16 x 1/16	TE-1303.1	1.45
300	3/8 x 1/16	TE-1066	1.65	150	3/8 x 1/4	TE-1136	1.90	8	5/16 x 1/16	TE-1303.3	1.50
400	3/8 x 1/4	TE-1067	1.70	200	3/8 x 1/4	TE-1137	2.05	10	5/16 x 1/16	TE-1304	1.50
500	3/8 x 1/2	TE-1068	1.75	250	3/8 x 1/2	TE-1138	2.20	15	3/8 x 1/16	TE-1304.2	1.50
6 WVDC				15 WVDC				100 WVDC			
1	1/4 x 1/16	TE-1080	1.25	1	1/4 x 1/16	TE-1148	1.25	1	3/8 x 1/16	TE-1400	1.35
2	1/4 x 1/16	TE-1081	1.25	2	1/4 x 1/16	TE-1149	1.25	2	3/8 x 1/16	TE-1401	1.40
3	1/4 x 1/16	TE-1082	1.25	3	1/4 x 1/16	TE-1150	1.25	3	3/8 x 1/16	TE-1402	1.40
4	1/4 x 1/16	TE-1083	1.25	4	1/4 x 1/16	TE-1151	1.30	4	3/8 x 1/16	TE-1403	1.40
5	1/4 x 1/16	TE-1084	1.25	5	1/4 x 1/16	TE-1152	1.40	5	3/8 x 1/16	TE-1404	1.50
6	1/4 x 1/16	TE-1085	1.25	6	1/4 x 1/16	TE-1153	1.40	6	3/8 x 1/16	TE-1405	1.50
8	1/4 x 1/16	TE-1086	1.35	8	1/4 x 1/16	TE-1154	1.40	8	3/8 x 1/16	TE-1406	1.55
10	1/4 x 1/16	TE-1087	1.35	10	1/4 x 1/16	TE-1155	1.40	10	3/8 x 1/16	TE-1407	1.55
15	1/4 x 1/16	TE-1089	1.35	15	1/4 x 1/16	TE-1156	1.45	15	3/8 x 1/4	TE-1408	1.55
20	1/4 x 1/16	TE-1090	1.35	20	1/4 x 1/16	TE-1157	1.45	20	3/8 x 1/2	TE-1409	1.60
25	1/4 x 1/16	TE-1091	1.35	25	5/16 x 1/16	TE-1157.1	1.45	150 WVDC			
30	1/4 x 1/16	TE-1092	1.40	30	5/16 x 1/16	TE-1158	1.50	1	3/8 x 1/16	TE-1500	1.40
35	1/4 x 1/16	TE-1093	1.40	35	3/8 x 1/16	TE-1159	1.55	2	3/8 x 1/16	TE-1501	1.45
40	1/4 x 1/16	TE-1095	1.40	50	3/8 x 1/16	TE-1160	1.60	3	3/8 x 1/16	TE-1502	1.45
50	5/16 x 1/16	TE-1100	1.40	75	3/8 x 1/16	TE-1161	1.70	4	3/8 x 1/16	TE-1503	1.45
60	5/16 x 1/16	TE-1101	1.40	100	3/8 x 1/16	TE-1162	1.80	5	3/8 x 1/16	TE-1504	1.55
75	3/8 x 1/16	TE-1101.5	1.45	150	3/8 x 1/4	TE-1163	1.95	6	3/8 x 1/4	TE-1505	1.55
100	3/8 x 1/16	TE-1102	1.50	200	3/8 x 1/2	TE-1164	2.10	8	3/8 x 1/4	TE-1506	1.60
150	3/8 x 1/16	TE-1103	1.55					10	3/8 x 1/4	TE-1507	1.60
200	3/8 x 1/4	TE-1104	1.65					12	3/8 x 1/2	TE-1508	1.60
250	3/8 x 1/4	TE-1105	1.70								
300	3/8 x 1/2	TE-1106	1.80								

SPRAGUE CAPACITORS

VL VERTI-LYTIC* ELECTROLYTICS

- For Replacement of Units of this Type Found on Printed Wiring Boards in Original Equipment
- Sections Housed in Sturdy, Pre-Molded Phenolic Cases
- Resin End Fill Will Not Contaminate Electrolyte—Protects Against Drying or Entrance of External Moisture
- Low Leakage Current and Long Shelf Life
- Polarity Easily Determined by Larger Diameter of Negative Lead



*Trademark

μF	WVDC	D. x L.	Cat. No.	List	μF	WVDC	D. x L.	Cat. No.	List
1	3	3/8 x 3/4	VL-1031	\$1.45	75	12	7/16 x 7/8	VL-1137	\$1.75
2	3	3/8 x 3/4	VL-1032	1.45	100	12	1/2 x 7/8	VL-1140	1.90
3	3	3/8 x 3/4	VL-1033	1.45	140	12	1/2 x 7/8	VL-1144	1.95
4	3	3/8 x 3/4	VL-1034	1.45	1	15	3/8 x 3/4	VL-1160	1.45
5	3	3/8 x 3/4	VL-1035	1.45	2	15	3/8 x 3/4	VL-1161	1.45
6	3	3/8 x 3/4	VL-1036	1.45	3	15	3/8 x 3/4	VL-1162	1.45
8	3	3/8 x 3/4	VL-1037	1.45	4	15	3/8 x 3/4	VL-1163	1.45
10	3	3/8 x 3/4	VL-1038	1.45	5	15	3/8 x 3/4	VL-1164	1.50
15	3	3/8 x 3/4	VL-1039	1.45	6	15	3/8 x 3/4	VL-1165	1.50
20	3	3/8 x 3/4	VL-1040	1.45	8	15	3/8 x 3/4	VL-1166	1.50
25	3	3/8 x 3/4	VL-1041	1.45	10	15	3/8 x 3/4	VL-1167	1.50
35	3	3/8 x 3/4	VL-1043	1.50	15	15	3/8 x 3/4	VL-1168	1.55
50	3	3/8 x 3/4	VL-1045	1.55	20	15	3/8 x 3/4	VL-1169	1.55
75	3	3/8 x 3/4	VL-1048	1.70	25	15	3/8 x 3/4	VL-1170	1.55
100	3	3/8 x 7/8	VL-1051	1.75	35	15	3/8 x 7/8	VL-1172	1.55
150	3	7/16 x 7/8	VL-1055	1.75	60	15	7/16 x 7/8	VL-1174	1.65
200	3	7/16 x 7/8	VL-1059	1.80	75	15	1/2 x 7/8	VL-1177	1.80
250	3	1/2 x 7/8	VL-1063	1.95	90	15	1/2 x 7/8	VL-1180	1.95
290	3	1/2 x 7/8	VL-1067	2.00	1	25	3/8 x 3/4	VL-1200	1.50
1	6	3/8 x 3/4	VL-1080	1.45	2	25	3/8 x 3/4	VL-1201	1.50
2	6	3/8 x 3/4	VL-1081	1.45	3	25	3/8 x 3/4	VL-1202	1.55
3	6	3/8 x 3/4	VL-1082	1.45	4	25	3/8 x 3/4	VL-1203	1.65
4	6	3/8 x 3/4	VL-1083	1.45	5	25	3/8 x 3/4	VL-1204	1.65
5	6	3/8 x 3/4	VL-1084	1.45	6	25	3/8 x 3/4	VL-1205	1.65
6	6	3/8 x 3/4	VL-1085	1.45	8	25	3/8 x 3/4	VL-1206	1.65
8	6	3/8 x 3/4	VL-1086	1.45	10	25	3/8 x 3/4	VL-1207	1.65
10	6	3/8 x 3/4	VL-1087	1.45	15	25	3/8 x 3/4	VL-1208	1.65
15	6	3/8 x 3/4	VL-1088	1.45	20	25	3/8 x 7/8	VL-1209	1.65
20	6	3/8 x 3/4	VL-1089	1.45	25	25	3/8 x 7/8	VL-1210	1.65
25	6	3/8 x 3/4	VL-1090	1.45	35	25	7/16 x 7/8	VL-1212	1.75
35	6	3/8 x 3/4	VL-1092	1.50	50	25	1/2 x 7/8	VL-1215	1.75
50	6	3/8 x 3/4	VL-1094	1.55	70	25	1/2 x 7/8	VL-1218	1.95
75	6	3/8 x 7/8	VL-1097	1.70	1	50	3/8 x 3/4	VL-1300	1.50
100	6	7/16 x 7/8	VL-1100	1.75	2	50	3/8 x 3/4	VL-1301	1.50
150	6	1/2 x 7/8	VL-1104	1.90	3	50	3/8 x 3/4	VL-1302	1.55
200	6	1/2 x 7/8	VL-1108	1.95	4	50	3/8 x 3/4	VL-1303	1.65
1	12	3/8 x 3/4	VL-1120	1.45	5	50	3/8 x 3/4	VL-1304	1.65
2	12	3/8 x 3/4	VL-1121	1.45	6	50	3/8 x 3/4	VL-1305	1.65
3	12	3/8 x 3/4	VL-1122	1.45	8	50	3/8 x 3/4	VL-1306	1.65
4	12	3/8 x 3/4	VL-1123	1.45	10	50	3/8 x 7/8	VL-1307	1.65
5	12	3/8 x 3/4	VL-1124	1.50	15	50	7/16 x 7/8	VL-1308	1.65
6	12	3/8 x 3/4	VL-1125	1.50	20	50	7/16 x 7/8	VL-1309	1.65
8	12	3/8 x 3/4	VL-1126	1.50	25	50	1/2 x 7/8	VL-1310	1.65
10	12	3/8 x 3/4	VL-1127	1.50	100-30	6-6	7/16 x 1 1/8	VL-2150	2.10
15	12	3/8 x 3/4	VL-1128	1.55	50-50	10-10	1/2 x 7/8	VL-2250	1.95
20	12	3/8 x 3/4	VL-1129	1.55	80-80	10-10	1/2 x 7/8	VL-2350	2.20
25	12	3/8 x 3/4	VL-1130	1.55	100-100-60	8-8-8	1/2 x 1 1/8	VL-3320	3.45
35	12	3/8 x 3/4	VL-1132	1.55	50-50-15	10-10-3	1/2 x 7/8	VL-3350	3.00
50	12	3/8 x 7/8	VL-1134	1.65					

SPRAGUE CAPACITORS

TYPE 40D MINIATURE EXTENDED-LIFE 85°C ELECTROLYTICS



- THE MOST RELIABLE TUBULAR ALUMINUM ELECTROLYTIC MANUFACTURED
- Premium quality. Service life of 10 years in actual circuit applications under typical operating conditions
- Special design and processing techniques result in ultra low leakage currents and high stability
- All critical terminations are welded to prevent open circuits even after extended service in the millivolt range

- Operating Temperature: -40°C to +85°C
- Units listed here have thermoplastic insulating sleeves; for rigid phenolic sleeve, change end of catalog number from A2 to A1; for bare metal tubes, delete last letter and digit
- Capacitance tolerance: -10, +100%
- Write for Engineering Bulletin No. 3205 to compare this outstanding capacitor with any other unit on the market

μF	D. x L.	Catalog Number
3 VOLTS D-C WORKING		
1	3/16 x 3/4	40D100A2
2	3/16 x 3/4	40D101A2
3	3/16 x 3/4	40D102A2
4	3/16 x 3/4	40D103A2
5	3/16 x 3/4	40D104A2
6	3/16 x 3/4	40D105A2
8	3/16 x 3/4	40D106A2
10	3/16 x 3/4	40D107A2
15	3/16 x 3/4	40D108A2
20	3/16 x 3/4	40D109A2
25	3/16 x 3/4	40D110A2
35	3/16 x 3/4	40D111A2
50	3/16 x 3/4	40D112A2
75	3/16 x 3/4	40D113A2
100	3/16 x 7/8	40D114A2
150	3/16 x 1	40D115A2
200	3/16 x 1 1/16	40D116A2
225	3/16 x 1 1/8	40D117A2
250	3/16 x 1 1/4	40D118A2
300	3/16 x 1 1/2	40D119A2

μF	D. x L.	Catalog Number
6 VOLTS D-C WORKING		
1	3/16 x 3/4	40D120A2
2	3/16 x 3/4	40D121A2
3	3/16 x 3/4	40D122A2
4	3/16 x 3/4	40D123A2
5	3/16 x 3/4	40D124A2
6	3/16 x 3/4	40D125A2
8	3/16 x 3/4	40D126A2
10	3/16 x 3/4	40D127A2
15	3/16 x 3/4	40D128A2
20	3/16 x 3/4	40D129A2
25	3/16 x 3/4	40D130A2
35	3/16 x 3/4	40D131A2
50	3/16 x 3/4	40D132A2
75	3/16 x 7/8	40D133A2
100	3/16 x 1	40D134A2
150	3/16 x 1 1/16	40D135A2
175	3/16 x 1 1/8	40D136A2
200	3/16 x 1 1/4	40D137A2
250	3/16 x 1 1/2	40D138A2

μF	D. x L.	Catalog Number
12 VOLTS D-C WORKING		
1	3/16 x 3/4	40D139A2
2	3/16 x 3/4	40D140A2
3	3/16 x 3/4	40D141A2
4	3/16 x 3/4	40D142A2
5	3/16 x 3/4	40D143A2
6	3/16 x 3/4	40D144A2
8	3/16 x 3/4	40D145A2
10	3/16 x 3/4	40D146A2
15	3/16 x 3/4	40D147A2
20	3/16 x 3/4	40D148A2
25	3/16 x 3/4	40D149A2
35	3/16 x 3/4	40D150A2
50	3/16 x 7/8	40D151A2
75	3/16 x 1	40D152A2
100	3/16 x 1	40D153A2
150	3/16 x 1 1/16	40D154A2
200	3/16 x 1 1/8	40D155A2

μF	D. x L.	Catalog Number
15 VOLTS D-C WORKING		
1	3/16 x 3/4	40D156A2
2	3/16 x 3/4	40D157A2
3	3/16 x 3/4	40D158A2
4	3/16 x 3/4	40D159A2
5	3/16 x 3/4	40D160A2
6	3/16 x 3/4	50D161A2
8	3/16 x 3/4	40D162A2
10	3/16 x 3/4	40D163A2
15	3/16 x 3/4	40D164A2
20	3/16 x 3/4	40D165A2
25	3/16 x 3/4	40D166A2
35	3/16 x 7/8	40D167A2
50	3/16 x 7/8	40D168A2
75	3/16 x 1	40D169A2
100	3/16 x 1 1/16	40D170A2
150	3/16 x 1 1/8	40D171A2

μF	D. x L.	Catalog Number
25 VOLTS D-C WORKING		
1	3/16 x 3/4	40D172A2
2	3/16 x 3/4	40D173A2
3	3/16 x 3/4	40D174A2
4	3/16 x 3/4	40D175A2
5	3/16 x 3/4	40D176A2

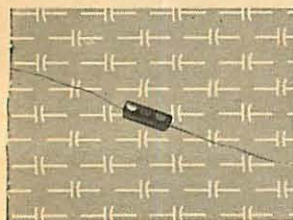
μF	D. x L.	Catalog Number
6	3/8 x 3/4	40D177A2
8	3/8 x 3/4	40D178A2
10	3/8 x 3/4	40D179A2
15	3/8 x 3/4	40D180A2
20	3/8 x 7/8	40D181A2
25	3/8 x 1	40D182A2
35	3/8 x 1	40D183A2
50	3/8 x 1 1/16	40D184A2
75	3/8 x 1 1/8	40D185A2

μF	D. x L.	Catalog Number
50 VOLTS D-C WORKING		
1	3/8 x 3/4	40D186A2
2	3/8 x 3/4	40D187A2
3	3/8 x 3/4	40D188A2
4	3/8 x 3/4	40D189A2
5	3/8 x 3/4	40D190A2
6	3/8 x 3/4	40D191A2
8	3/8 x 7/8	40D192A2
10	3/8 x 7/8	40D193A2
15	3/8 x 1	40D194A2
20	3/8 x 1 1/16	40D195A2
25	3/8 x 1 1/8	40D196A2
30	3/8 x 1 1/4	40D197A2

μF	D. x L.	Catalog Number
100 VOLTS D-C WORKING		
1	3/8 x 1	40D198A2
2	3/8 x 1	40D199A2
3	3/8 x 1	40D200A2
4	3/8 x 1	40D201A2
5	3/8 x 1	40D202A2
6	3/8 x 1	40D203A2
8	3/8 x 1	40D204A2
10	3/8 x 1 1/16	40D205A2
15	3/8 x 1 1/8	40D206A2
18	3/8 x 1 1/4	40D207A2

μF	D. x L.	Catalog Number
150 VOLTS D-C WORKING		
1	3/8 x 1	40D208A2
2	3/8 x 1	40D209A2
3	3/8 x 1	40D210A2
4	3/8 x 1	40D211A2
5	3/8 x 1	40D212A2
6	3/8 x 1 1/16	40D213A2
8	3/8 x 1 1/8	40D214A2
10	3/8 x 1 1/4	40D215A2

TYPE 160D HEARING AID TANTALEX® CAPACITORS



- Especially designed for hearing aid applications—Meet the need for tiny, leakproof, high capacitance capacitors with long, trouble-free service life
- Solid, non-corrosive electrolyte—nothing to leak!
- Long shelf and service life

- Insulated with polyester tubes and epoxy end seals. Moisture-proof!
- Operating temperature range: -55°C to +65°C
- Standard capacitance tolerance: -0%, +100%

.080 D. x .200 L.			.080 D. x 250 L.			.105 D. x 250 L.		
μF	WVDC	Cat. No.	μF	WVDC	Cat. No.	μF	WVDC	Cat. No.
2	4	160D1	4	4	160D4	8	4	160D7
1	8	160D2	2	8	160D5	4	8	160D8
0.5	15	160D3	1	15	160D6	2	15	160D9

PHOTO FLASH ELECTROLYTICS

- Ultra-low leakage
- Weighs only 11 oz.
- Highly stable film formation assures long life
- 525 μF, 450 WVDC
- 53 w-s, 2 1/8" D. x 4 7/16" L.

Catalog No. FF-1

List price \$22.50



BUILD YOUR OWN ELECTRONIC FLASH with these ACCESSORIES

Description	Cat. No.	Dealer Net
Sprague Photoflash Booklet	C-703	\$.35
Kemlite DX tube, 100 w-s, 450v.	FA-100	12.00
Reflector for DX tube.	FA-101	2.75
Vertical adaptor with cable	FA-102	2.60
Jaidinger Synchronizing Relay	FA-103	3.50
Water base U-5W tube, 100 w-s, 450v	FA-104	7.50
Reflector for U-5W tube	FA-105	3.50
Oak Y-6815 4V Vibrator	FA-106	8.50

SPRAGUE CAPACITORS

85°C FOIL TANTALEX® CAPACITORS



- For applications where small physical size, stable electrical characteristics, and long service life are important.
- Type 110D and 112D also available marked to meet MIL-C-3965B. Order by complete military type designation.
- High capacitance stability even at low operating temperatures, unlike aluminum-foil electrolytics
- Extremely low leakage current
- New end-seal design with virtually leak-proof TFE-fluorocarbon elastomer seal
- Type 110D is of polarized plain-foil construction—Type 111D is non-polarized, with plain foil—Type 112D is of polarized etched-foil construction—Type 113D is of non-polarized etched-foil construction
- Standard capacitance tolerance: Types 110D and 111D, $\pm 20\%$; Type 112D and 113D $\pm 75, -15\%$
- Standard units have outer plastic insulating wrap over case. For bare metal case, end Cat. No. in "0" instead of "1"

μ F	Size Code	Catalog Number
TYPE 110D		
POLARIZED PLAIN-FOIL		
3 WORKING VOLTS D-C		
10	D	110D106X0003D1
55	G	110D556X0003G1
160	J	110D167X0003J1
350	M	110D357X0003M1
440	P	110D447X0003P1
6 WORKING VOLTS D-C		
8	D	110D805X0006D1
30	G	110D306X0006G1
35	G	110D356X0006G1
100	J	110D107X0006J1
200	M	110D207X0006M1
300	P	110D307X0006P1
10 WORKING VOLTS D-C		
6	D	110D605X0010D1
25	G	110D256X0010G1
80	J	110D806X0010J1
160	M	110D167X0010M1
220	P	110D227X0010P1
15 WORKING VOLTS D-C		
4.5	D	110D455X0015D1
18	G	110D186X0015G1
55	J	110D556X0015J1
110	M	110D117X0015M1
160	P	110D167X0015P1
25 WORKING VOLTS D-C		
3	D	110D305X0025D1
12	G	110D126X0025G1
35	J	110D356X0025J1
70	M	110D706X0025M1
100	P	110D107X0025P1
30 WORKING VOLTS D-C		
2.5	D	110D255X0030D1
10	G	110D106X0030G1
30	J	110D306X0030J1
60	M	110D606X0030M1
85	P	110D856X0030P1
50 WORKING VOLTS D-C		
1.5	D	110D155X0050D1
6	G	110D605X0050G1
20	J	110D206X0050J1
40	M	110D406X0050M1
55	P	110D556X0050P1
60 WORKING VOLTS D-C		
1.2	D	110D125X0060D1
5	G	110D505X0060G1
17	J	110D176X0060J1
34	M	110D346X0060M1
48	P	110D486X0060P1
75 WORKING VOLTS D-C		
1	D	110D105X0075D1
4	G	110D405X0075G1
14	J	110D146X0075J1
28	M	110D286X0075M1
40	P	110D406X0075P1
100 WORKING VOLTS D-C		
.8	D	110D804X0100D1
3	G	110D305X0100G1
10	J	110D106X0100J1
20	M	110D206X0100M1
30	P	110D306X0100P1

μ F	Size Code	Catalog Number
150 WORKING VOLTS D-C		
.5	D	110D504X0150D1
1	G	110D105X0150G1
2	G	110D205X0150G1
7	J	110D705X0150J1
14	M	110D146X0150M1
20	P	110D206X0150P1
TYPE 111D		
NON-POLARIZED PLAIN-FOIL		
6 WORKING VOLTS N.P.		
5	D	111D505X0006D1
25	G	111D256X0006G1
85	J	111D856X0006J1
170	M	111D177X0006M1
250	P	111D257X0006P1
10 WORKING VOLTS N.P.		
3	D	111D305X0010D1
16	G	111D166X0010G1
55	J	111D556X0010J1
110	M	111D117X0010M1
150	P	111D157X0010P1
15 WORKING VOLTS N.P.		
2.5	D	111D255X0015D1
10	G	111D106X0015G1
35	J	111D356X0015J1
70	M	111D706X0015M1
100	P	111D107X0015P1
25 WORKING VOLTS N.P.		
1.5	D	111D155X0025D1
6	G	111D605X0025G1
20	J	111D206X0025J1
40	M	111D406X0025M1
60	P	111D606X0025P1
30 WORKING VOLTS N.P.		
1.4	D	111D145X0030D1
5.5	G	111D555X0030G1
18	J	111D186X0030J1
36	M	111D366X0030M1
45	P	111D456X0030P1
50 WORKING VOLTS N.P.		
.8	D	111D804X0050D1
3	G	111D305X0050G1
10	J	111D106X0050J1
20	M	111D206X0050M1
30	P	111D306X0050P1
60 WORKING VOLTS N.P.		
.6	D	111D604X0060D1
2.5	G	111D255X0060G1
8.5	J	111D855X0060J1
17	M	111D176X0060M1
24	P	111D246X0060P1
75 WORKING VOLTS N.P.		
.5	D	111D504X0075D1
2	G	111D205X0075G1
7	J	111D705X0075J1
14	M	111D146X0075M1
20	P	111D206X0075P1

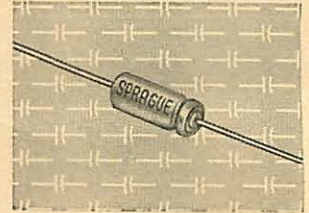
μ F	Size Code	Catalog Number
100 WORKING VOLTS N.P.		
.4	D	111D404X0100D1
1.5	G	111D155X0100G1
5	J	111D505X0100J1
10	M	111D106X0100M1
15	P	111D156X0100P1
150 WORKING VOLTS N.P.		
.25	D	111D254X0150D1
1	G	111D105X0150G1
3.5	J	111D355X0150J1
7	M	111D705X0150M1
10	P	111D106X0150P1
TYPE 112D		
POLARIZED ETCHED-FOIL		
15 WORKING VOLTS D-C		
15	D	112D156C7015D1
60	G	112D606C7015G1
200	J	112D207C7015J1
400	M	112D407C7015M1
580	P	112D587C7015P1
25 WORKING VOLTS D-C		
10	D	112D106C7025D1
40	G	112D406C7025G1
120	J	112D127C7025J1
250	M	112D257C7025M1
350	P	112D357C7025P1
30 WORKING VOLTS D-C		
8	D	112D805C7030D1
32	G	112D326C7030G1
110	J	112D117C7030J1
220	M	112D227C7030M1
300	P	112D307C7030P1
50 WORKING VOLTS D-C		
4.5	D	112D455C7050D1
18	G	112D186C7050G1
60	J	112D606C7050J1
100	M	112D107C7050M1
150	P	112D157C7050P1
60 WORKING VOLTS D-C		
4	D	112D405C7060D1
75 WORKING VOLTS D-C		
3	D	112D305C7075D1
12	G	112D126C7075G1
30	J	112D306C7075J1
70	M	112D706C7075M1
100	P	112D107C7075P1
100 WORKING VOLTS D-C		
2	D	112D205C7100D1
8	G	112D805C7100G1
25	J	112D256C7100J1
50	M	112D506C7100M1
70	P	112D706C7100P1
150 WORKING VOLTS D-C		
1	D	112D105C7150D1
4	G	112D405C7150G1
13	J	112D136C7150J1
25	M	112D256C7150M1
36	P	112D366C7150P1

μ F	Size Code	Catalog Number
TYPE 113D		
NON-POLARIZED ETCHED-FOIL		
15 WORKING VOLTS N.P.		
10	D	113D106C7015D1
40	G	113D406C7015G1
120	J	113D127C7015J1
250	M	113D257C7015M1
350	P	113D357C7015P1
25 WORKING VOLTS N.P.		
5	D	113D505C7025D1
20	G	113D206C7025G1
70	J	113D706C7025J1
140	M	113D147C7025M1
200	P	113D207C7025P1
30 WORKING VOLTS N.P.		
4.5	D	113D455C7030D1
18	G	113D186C7030G1
60	J	113D606C7030J1
120	M	113D127C7030M1
170	P	113D177C7030P1
50 WORKING VOLTS N.P.		
2.5	D	113D255C7050D1
10	G	113D106C7050G1
30	J	113D306C7050J1
60	M	113D606C7050M1
80	P	113D806C7050P1
75 WORKING VOLTS N.P.		
1.5	D	113D155C7075D1
6	G	113D605C7075G1
15	J	113D156C7075J1
35	M	113D356C7075M1
50	P	113D506C7075P1
100 WORKING VOLTS N.P.		
1	D	113D105C7100D1
4	G	113D405C7100G1
12	J	113D126C7100J1
25	M	113D256C7100M1
35	P	113D356C7100P1
150 WORKING VOLTS N.P.		
.5	D	113D504C7150D1
2	G	113D205C7150G1
6	J	113D605C7150J1
12	M	113D126C7150M1
18	P	113D186C7150P1
SIZE CODE		
Code	Diam x Length	
D	13/64 x	3/4
G	19/64 x	15/16
J	25/64 x	1 1/2
M	25/64 x	2 3/16
P	25/64 x	2 13/16

SPRAGUE CAPACITORS

TYPE 109D SINTERED - ANODE TANTALEX[®] CAPACITORS

- Intended for applications where superior quality and reliable design in military equipment is required
- May be operated to 85°C at rated voltage and to 105°C with 15% voltage derating
- Will meet 2000 cycle missile vibration requirements
- Double spun TFE-fluorocarbon elastomer high temperature end seals
- Sintered-anode permits higher capacitance
- Exhibit optimum characteristics with respect to frequency and temperature-coefficient of capacitance
- Unusual stability due to chemical inertness of tantalum oxide film to the specific electrolytes used
- Standard units have outer plastic insulating sleeves. For bare metal case, end Cat. No. in "0" instead of "2"



GROUP I: +20, -15% CAPACITANCE TOLERANCE

μF	Size Code	Catalog Number	μF	Size Code	Catalog Number	μF	Size Code	Catalog Number	μF	Size Code	Catalog Number
6 WORKING VOLTS D-C			15 WORKING VOLTS D-C			30 WORKING VOLTS D-C			75 WORKING VOLTS D-C		
27	C	109D276C2006C2	13	C	109D136C2015C2	7	C	109D705C2030C2	18	F	109D186C2060F2
30	C	109D306C2006C2	15	C	109D156C2015C2	8	C	109D805C2030C2	20	F	109D206C2060F2
120	F	109D127C2006F2	55	F	109D556C2015F2	35	F	109D356C2030F2	45	T	109D456C2060T2
140	F	109D147C2006F2	70	F	109D706C2015F2	40	F	109D406C2030F2	50	T	109D506C2060T2
290	T	109D297C2006T2	150	T	109D157C2015T2	80	T	109D806C2030T2	100 WORKING VOLTS D-C		
330	T	109D337C2006T2	170	T	109D177C2015T2	100	T	109D107C2030T2	3	C	109D305C2075C2
8 WORKING VOLTS D-C			25 WORKING VOLTS D-C			50 WORKING VOLTS D-C			3.5	C	109D355C2075C2
22	C	109D226C2008C2	9	C	109D905C2025C2	4.5	C	109D455C2050C2	13	F	109D136C2075F2
25	C	109D256C2008C2	10	C	109D106C2025C2	5	C	109D505C2050C2	15	F	109D156C2075F2
100	F	109D107C2008F2	45	F	109D456C2025F2	22	F	109D226C2050F2	35	T	109D356C2075T2
120	F	109D127C2008F2	50	F	109D506C2025F2	25	F	109D256C2050F2	40	T	109D406C2075T2
260	T	109D267C2008T2	100	T	109D107C2025T2	55	T	109D556C2050T2	60 WORKING VOLTS D-C		
290	T	109D297C2008T2	110	T	109D117C2025T2	60	T	109D606C2050T2	2.5	C	109D255C2100C2
10 WORKING VOLTS D-C						60 WORKING VOLTS D-C			10	F	109D106C2100F2
18	C	109D186C2010C2				3.6	C	109D365C2060C2	11	F	109D116C2100F2
20	C	109D206C2010C2				4	C	109D405C2060C2	27	T	109D276C2100T2
85	F	109D856C2010F2							30	T	109D306C2100T2

GROUP II: ±20% CAPACITANCE TOLERANCE

μF	Size Code	Catalog Number	μF	Size Code	Catalog Number	μF	Size Code	Catalog Number	μF	Size Code	Catalog Number
6 WORKING VOLTS D-C			15 WORKING VOLTS D-C			30 WORKING VOLTS D-C			75 WORKING VOLTS D-C		
66	C	109D666X0006C2	33	C	109D336X0015C2	15	C	109D156X0030C2	37	F	109D376X0060F2
270	F	109D277X0006F2	120	F	109D127X0015F2	68	F	109D686X0030F2	68	T	109D686X0060T2
560	T	109D567X0006T2	270	T	109D277X0015T2	150	T	109D157X0030T2	100 WORKING VOLTS D-C		
8 WORKING VOLTS D-C			25 WORKING VOLTS D-C			50 WORKING VOLTS D-C			6.8	C	109D685X0075C2
56	C	109D566X0008C2	22	C	109D226X0025C2	10	C	109D106X0050C2	33	F	109D336X0075F2
220	F	109D227X0008F2	100	F	109D107X0025F2	47	F	109D476X0050F2	56	T	109D566X0075T2
430	T	109D437X0008T2	180	T	109D187X0025T2	82	T	109D826X0050T2	60 WORKING VOLTS D-C		
10 WORKING VOLTS D-C						60 WORKING VOLTS D-C			4.7	C	109D475X0100C2
47	C	109D476X0010C2				8.2	C	109D825X0060C2	22	F	109D226X0100F2
									43	T	109D436X0100T2

TYPE 130D, 125°C SINTERED-ANODE TANTALEX[®] CAPACITORS



- No derating required for 125°C operation
- For applications demanding superior quality and high reliability
- This design will meet the 2000 cycle military missile vibration requirements
- Double spun TFE-fluorocarbon elastomer high temperature end seals
- Sintered-anode permits higher capacitance
- Lowest leakage current of any type of tantalum capacitor
- Optimum characteristics with respect to frequency and temperature-coefficient of capacitance
- Standard units have plastic film insulating tube. For bare metal cases, end catalog number in "0" instead of "2"

μF	WVDC	Size Code	Catalog Number	μF	WVDC	Size Code	Catalog Number	μF	WVDC	Size Code	Catalog Number	
GROUP I: +20%, -15% CAP. TOL.												
30	4	C	130D306C2004C2	25	30	F	130D256C2030F2	180	7	F	130D187X0007F2	
140	4	F	130D147C2004F2	4	40	C	130D405C2040C2	33	10	C	130D336X0010C2	
25	5	C	130D256C2005C2	20	40	F	130D206C2040F2	120	10	F	130D127X0010F2	
20	7	C	130D206C2007C2	3.5	50	C	130D355C2050C2	22	15	C	130D226X0015C2	
100	7	F	130D107C2007F2	15	50	F	130D156C2050F2	15	20	C	130D156X0020C2	
15	10	C	130D156C2010C2	2.5	70	C	130D255C2070C2	68	20	F	130D686X0020F2	
70	10	F	130D706C2010F2	11	70	F	130D116C2070F2	10	30	C	130D106X0030C2	
70	15	C	130D106C2015C2	GROUP II: ±20% CAP. TOL.			47	30	F	130D476X0030F2		
8	20	C	130D805C2020C2	68	4	C	130D686X0004C2	6.8	50	C	130D685X0050C2	
40	20	F	130D406C2020F2	270	4	F	130D277X0004F2	33	50	F	130D336X0050F2	
5	30	C	130D505C2030C2	47	7	C	130D476X0007C2	4.7	70	C	130D475X0070C2	
									22	70	F	130D226X0070F2

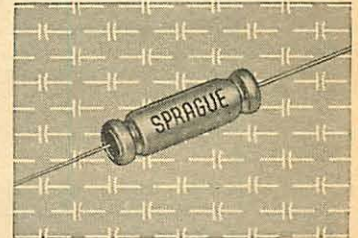
SIZE CODE	Code	Diam.	Length
	C	13/64	33/64
	F	19/64	45/64
	T	25/64	53/64

SPRAGUE CAPACITORS

125°C FOIL TANTALEX® CAPACITORS

- Ideal where small physical size, stable electrical characteristics, and long service and shelf life are important.
- Type 120D and 122D available marked to meet MIL-C-3965B. Order by complete military type designation.
- Capacitance remains stable at low operating temperatures—may be used where aluminum-foil electrolytics are inoperable
- Extremely low leakage current
- Standard capacitance tolerance: ±20%

- May often replace, where circuit parameters permit, aluminum electrolytics, paper capacitors, and metallized paper capacitors, resulting in substantial saving of weight and space
- Double synthetic-rubber and TFE-Fluorocarbon elastomer combination seals ensure reliable service life at 125°C
- Standard units have outer plastic insulating wrap over case. For bare metal case, end Cat. No. in "0" instead of "1"



μF	Size Code	Catalog Number
TYPE 120D POLARIZED PLAIN-FOIL		
10 WORKING VOLTS D-C		
4.5	E	120D455X0010E1
18	H	120D186X0010H1
55	K	120D556X0010K1
110	N	120D117X0010N1
160	Q	120D167X0010Q1
15 WORKING VOLTS D-C		
3	E	120D305X0015E1
12	H	120D126X0015H1
35	K	120D356X0015K1
70	N	120D706X0015N1
100	Q	120D107X0015Q1
30 WORKING VOLTS D-C		
1.5	E	120D155X0030E1
6	H	120D605X0030H1
20	K	120D206X0030K1
40	N	120D406X0030N1
55	Q	120D556X0030Q1
50 WORKING VOLTS D-C		
1	E	120D105X0050E1
4	H	120D405X0050H1
14	K	120D146X0050K1
28	N	120D286X0050N1
40	Q	120D406X0050Q1
65 WORKING VOLTS D-C		
.8	E	120D804X0065E1
3	H	120D305X0065H1

μF	Size Code	Catalog Number
10	K	120D106X0065K1
20	N	120D206X0065N1
30	Q	120D306X0065Q1
100 WORKING VOLTS D-C		
.5	E	120D504X0100E1
2	H	120D205X0100H1
7	K	120D705X0100K1
14	N	120D146X0100N1
20	Q	120D206X0100Q1
150 WORKING VOLTS D-C		
.35	E	120D354X0150E1
1.5	H	120D155X0150H1
5	K	120D505X0150K1
10	N	120D106X0150N1
15	Q	120D156X0150Q1
TYPE 121D NON-POLARIZED PLAIN-FOIL		
10 WORKING VOLTS N.P.		
2.5	E	121D255X0010E1
10	H	121D106X0010H1
35	K	121D356X0010K1
70	N	121D706X0010N1
100	Q	121D107X0010Q1
15 WORKING VOLTS N.P.		
1.5	E	121D155X0015E1
6	H	121D605X0015H1
20	K	121D206X0015K1
40	N	121D406X0015N1
60	Q	121D606X0015Q1

μF	Size Code	Catalog Number
30 WORKING VOLTS N.P.		
.8	E	121D804X0030E1
3	H	121D305X0030H1
10	K	121D106X0030K1
20	N	121D206X0030N1
30	Q	121D306X0030Q1
50 WORKING VOLTS N.P.		
.5	E	121D504X0050E1
2	H	121D205X0050H1
7	K	121D705X0050K1
14	N	121D146X0050N1
20	Q	121D206X0050Q1
65 WORKING VOLTS N.P.		
.4	E	121D404X0065E1
1.5	H	121D155X0065H1
5	K	121D505X0065K1
10	N	121D106X0065N1
15	Q	121D156X0065Q1
100 WORKING VOLTS N.P.		
.25	E	121D254X0100E1
1.0	H	121D105X0100H1
3.5	K	121D355X0100K1
7	N	121D705X0100N1
10	Q	121D106X0100Q1
150 WORKING VOLTS N.P.		
.15	E	121D154X0150E1
.75	H	121D754X0150H1
2.5	K	121D255X0150K1
5.0	N	121D505X0150N1
7.5	Q	121D755X0150Q1

μF	Size Code	Catalog Number
TYPE 122D POLARIZED ETCHED-FOIL		
15 WORKING VOLTS D-C		
9	E	122D905C7015E1
37	H	122D376C7015H1
120	K	122D127C7015K1
250	N	122D257C7015N1
350	Q	122D357C7015Q1
30 WORKING VOLTS D-C		
4.5	E	122D455C7030E1
13	H	122D186C7030H1
60	K	122D606C7030K1
100	N	122D107C7030N1
150	Q	122D157C7030Q1
50 WORKING VOLTS D-C		
3	E	122D305C7050E1
12	H	122D126C7050H1
30	K	122D306C7050K1
70	N	122D706C7050N1
100	Q	122D107C7050Q1
65 WORKING VOLTS D-C		
2	E	122D205C7065E1
8	H	122D805C7065H1
25	K	122D256C7065K1
50	N	122D506C7065N1
70	Q	122D706C7065Q1
100 WORKING VOLTS D-C		
1	E	122D105C7100E1
4	H	122D405C7100H1
13	K	122D136C7100K1
25	N	122D256C7100N1
35	Q	122D366C7100Q1

TYPE 131D and 132D - "CUP TYPE" TANTALEX® CAPACITORS



- -55°C to 85°C operation at full rating. 100°C operation with 15% derating
- Stable in performance characteristics over entire temperature range
- Large capacitance in small physical size
- Extremely low leakage
- 132D designed to withstand severe military

vibration tests. Available marked to meet MIL-C-3965B. Order by complete military type designation.

● 131D for industrial electronics is similar to 132D but designed for static use in ground equipment. Write for Engineering Bulletin No. 3710a for complete details.

μF	Size Code	Catalog Number	—15, +20% Tol.	—15, +50% Tol.
6 WORKING VOLTS D-C				
30	U	132D306C2006U0	132D306C7006U0	
140	V	132D147C2006V0	132D147C7006V0	
320	T	132D327C2006T0	132D327C7006T0	
8 WORKING VOLTS D-C				
25	U	132D256C2008U0	132D256C7008U0	
10 WORKING VOLTS D-C				
20	U	132D206C2010U0	132D206C7010U0	
100	V	132D107C2010V0	132D107C7010V0	
250	T	132D257C2010T0	132D257C7010T0	
15 WORKING VOLTS D-C				
15	U	132D156C2015U0	132D156C7015U0	
70	V	132D706C2015V0	132D706C7015V0	
170	T	132D177C2015T0	132D177C7015T0	

μF	Size Code	Catalog Number	—15, +20% Tol.	—15, +50% Tol.
25 WORKING VOLTS D-C				
10	U	132D106C2025U0	132D106C7025U0	
30 WORKING VOLTS D-C				
8	U	132D805C2030U0	132D805C7030U0	
40	V	132D406C2030V0	132D406C7030V0	
100	T	132D107C2030T0	132D107C7030T0	
50 WORKING VOLTS D-C				
5	U	132D505C2050U0	132D505C7050U0	
25	V	132D256C2050V0	132D256C7050V0	
60	T	132D606C2050T0	132D606C7050T0	
60 WORKING VOLTS D-C				
4	U	132D405C2060U0	132D405C7060U0	
20	V	132D206C2060V0	132D206C7060V0	
50	T	132D506C2060T0	132D506C7060T0	

μF	Size Code	Catalog Number	—15, +20% Tol.	—15, +50% Tol.
75 WORKING VOLTS D-C				
3.5	U	132D355C2075U0	132D355C7075U0	
15	V	132D156C2075V0	132D156C7075V0	
40	T	132D406C2075T0	132D406C7075T0	
100 WORKING VOLTS D-C				
2	U	132D205C2100U0	132D205C7100U0	
11	V	132D116C2100V0	132D116C7100V0	
30	T	132D306C2100T0	132D306C7100T0	
125 WORKING VOLTS D-C				
1.7	U	132D175C2125U0	132D175C7125U0	
9	V	132D905C2125V0	132D905C7125V0	
25	T	132D256C2125T0	132D256C7125T0	

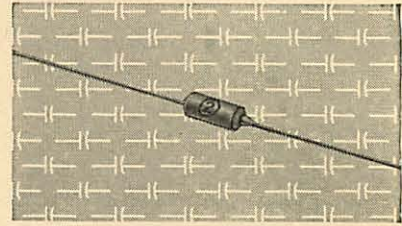
SIZE CODE

Code	Diam. x Length	Code	Diam. x Length	Code	Diam. x Length	Code	Diam. x Length
E	13/64 x 13/16	K	25/64 x 1 5/8	Q	25/64 x 2 15/16	V	11/16 x 15/32
H	19/64 x 1 3/32	N	25/64 x 2 5/16	U	15/32 x 5/16	T	49/64 x 37/64

SPRAGUE CAPACITORS

TYPE 150D SOLID-ELECTROLYTE TANTALEX® CAPACITORS

- Combine True Miniaturization with Electrical and Performance Characteristics Previously Unobtainable in Electrolytic Capacitors
- Hermetically Sealed in Subminiature Metal Cases
- Solid Electrolyte Cannot Leak or Corrode, Even if Hermetic Seal is Accidentally Broken
- Exhibit Stable Capacitance and Low Dissipation Factor over Wide Temperature Range of -80°C to +85°C
- Temperature Coefficient of Capacitance is Unusually low and Linear—Nominally 600 ppm/°C
- Standard Units have Plastic Insulating Sleeves. For Bare Metal Case, end Cat. No. in "0" instead of "2"



Size		Catalog Number	
μF	Code	+20% Tol.	+10% Tol.
6 WVDC — 8 VDC SURGE			
.22	A	150D224X0006A2	150D224X9006A2
.27	A	150D274X9006A2	150D274X9006A2
.33	A	150D334X0006A2	150D334X9006A2
.39	A	150D394X9006A2	150D394X9006A2
.47	A	150D474X0006A2	150D474X9006A2
.56	A	150D564X9006A2	150D564X9006A2
.68	A	150D684X0006A2	150D684X9006A2
.82	A	150D824X9006A2	150D824X9006A2
1.0	A	150D105X0006A2	150D105X9006A2
1.2	A	150D125X9006A2	150D125X9006A2
1.5	A	150D155X0006A2	150D155X9006A2
1.8	A	150D185X9006A2	150D185X9006A2
2.2	A	150D225X0006A2	150D225X9006A2
2.7	A	150D275X9006A2	150D275X9006A2
3.3	A	150D335X0006A2	150D335X9006A2
3.9	A	150D395X9006A2	150D395X9006A2
4.7	A	150D475X0006A2	150D475X9006A2
5.6	A	150D565X9006A2	150D565X9006A2
6.8	A	150D685X0006A2	150D685X9006A2
8.2	B	150D825X9006B2	150D825X9006B2
10	B	150D106X0006B2	150D106X9006B2
12	B	150D126X9006B2	150D126X9006B2
15	B	150D156X0006B2	150D156X9006B2
18	B	150D186X9006B2	150D186X9006B2
22	B	150D226X0006B2	150D226X9006B2
27	B	150D276X9006B2	150D276X9006B2
33	B	150D336X0006B2	150D336X9006B2
39	B	150D396X9006B2	150D396X9006B2
47	B	150D476X0006B2	150D476X9006B2
56	B	150D566X9006B2	150D566X9006B2
60	B	150D606X0006B2	150D606X0006B2
68	R	150D686X0006R2	150D686X0006R2
100	R	150D107X0006R2	150D107X0006R2
120	R	150D127X0006R2	150D127X0006R2
150	R	150D157X0006R2	150D157X0006R2
180	R	150D187X0006S2	150D187X0006S2
220	S	150D227X0006S2	150D227X0006S2
330	S	150D337X0006S2	150D337X0006S2

Size		Catalog Number	
μF	Code	+20% Tol.	+10% Tol.
10 WVDC — 13 VDC SURGE			
.22	A	150D224X0010A2	150D224X9010A2
.27	A	150D274X9010A2	150D274X9010A2
.33	A	150D334X0010A2	150D334X9010A2
.39	A	150D394X9010A2	150D394X9010A2
.47	A	150D474X0010A2	150D474X9010A2
.56	A	150D564X9010A2	150D564X9010A2
.68	A	150D684X0010A2	150D684X9010A2
.82	A	150D824X9010A2	150D824X9010A2
1.0	A	150D105X0010A2	150D105X9010A2
1.2	A	150D125X9010A2	150D125X9010A2
1.5	A	150D155X0010A2	150D155X9010A2
1.8	A	150D185X9010A2	150D185X9010A2
2.2	A	150D225X0010A2	150D225X9010A2
2.7	A	150D275X9010A2	150D275X9010A2
3.3	A	150D335X0010A2	150D335X9010A2
3.9	A	150D395X9010A2	150D395X9010A2
4.7	A	150D475X0010A2	150D475X9010A2
5.6	B	150D565X9010B2	150D565X9010B2
6.8	B	150D685X0010B2	150D685X9010B2
8.2	B	150D825X9010B2	150D825X9010B2
10	B	150D106X0010B2	150D106X9010B2
12	B	150D126X9010B2	150D126X9010B2
15	B	150D156X0010B2	150D156X9010B2
18	B	150D186X9010B2	150D186X9010B2
22	B	150D226X0010B2	150D226X9010B2
27	B	150D276X9010B2	150D276X9010B2
33	B	150D336X0010B2	150D336X9010B2

Size		Catalog Number	
μF	Code	+20% Tol.	+10% Tol.
15 WVDC — 18 VDC SURGE			
39	B	150D396X9010B2	150D396X9010B2
40	B	150D406X0010B2	150D406X0010B2
68	R	150D686X0010R2	150D686X0010R2
100	R	150D107X0010R2	150D107X0010R2
120	R	150D127X0010R2	150D127X0010R2
150	S	150D157X0010S2	150D157X0010S2
220	S	150D227X0010S2	150D227X0010S2
.22	A	150D224X0015A2	150D224X9015A2
.27	A	150D274X9015A2	150D274X9015A2
.33	A	150D334X0015A2	150D334X9015A2
.39	A	150D394X9015A2	150D394X9015A2
.47	A	150D474X0015A2	150D474X9015A2
.56	A	150D564X9015A2	150D564X9015A2
.68	A	150D684X0015A2	150D684X9015A2
.82	A	150D824X9015A2	150D824X9015A2
1.0	A	150D105X0015A2	150D105X9015A2
1.2	A	150D125X9015A2	150D125X9015A2
1.5	A	150D155X0015A2	150D155X9015A2
1.8	A	150D185X9015A2	150D185X9015A2
2.2	A	150D225X0015A2	150D225X9015A2
2.7	A	150D275X9015A2	150D275X9015A2
3.3	A	150D335X0015A2	150D335X9015A2
3.9	B	150D395X9015B2	150D395X9015B2
4.7	B	150D475X0015B2	150D475X9015B2
5.6	B	150D565X9015B2	150D565X9015B2
6.8	B	150D685X0015B2	150D685X9015B2
8.2	B	150D825X9015B2	150D825X9015B2
10	B	150D106X0015B2	150D106X9015B2
12	B	150D126X9015B2	150D126X9015B2
15	B	150D156X0015B2	150D156X9015B2
18	B	150D186X9015B2	150D186X9015B2
22	B	150D226X0015B2	150D226X9015B2
33	R	150D336X0015R2	150D336X0015R2
47	R	150D476X0015R2	150D476X0015R2
68	R	150D686X0015R2	150D686X0015R2
100	S	150D107X0015S2	150D107X0015S2
150	S	150D157X0015S2	150D157X0015S2

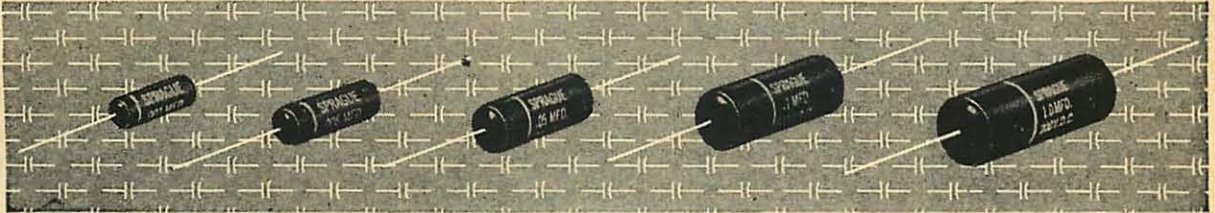
Size		Catalog Number	
μF	Code	+20% Tol.	+10% Tol.
20 WVDC — 23 VDC SURGE			
.0047	A	150D472X0020A2	150D472X9020A2
.0056	A	150D562X9020A2	150D562X9020A2
.0068	A	150D682X0020A2	150D682X9020A2
.0082	A	150D822X9020A2	150D822X9020A2
.01	A	150D103X0020A2	150D103X9020A2
.012	A	150D123X9020A2	150D123X9020A2
.015	A	150D153X0020A2	150D153X9020A2
.018	A	150D183X9020A2	150D183X9020A2
.022	A	150D223X0020A2	150D223X9020A2
.027	A	150D273X9020A2	150D273X9020A2
.033	A	150D333X0020A2	150D333X9020A2
.039	A	150D393X9020A2	150D393X9020A2
.047	A	150D473X0020A2	150D473X9020A2
.056	A	150D563X9020A2	150D563X9020A2
.068	A	150D683X0020A2	150D683X9020A2
.082	A	150D823X9020A2	150D823X9020A2
.1	A	150D104X0020A2	150D104X9020A2
.12	A	150D124X9020A2	150D124X9020A2
.15	A	150D154X0020A2	150D154X9020A2
.18	A	150D184X9020A2	150D184X9020A2
.22	A	150D224X0020A2	150D224X9020A2
.27	A	150D274X9020A2	150D274X9020A2
.33	A	150D334X0020A2	150D334X9020A2
.39	A	150D394X9020A2	150D394X9020A2
.47	A	150D474X0020A2	150D474X9020A2
.56	A	150D564X9020A2	150D564X9020A2
.68	A	150D684X0020A2	150D684X9020A2
.82	A	150D824X9020A2	150D824X9020A2

Size		Catalog Number	
μF	Code	+20% Tol.	+10% Tol.
35 WVDC — 40 VDC SURGE			
1.0	A	150D105X0020A2	150D105X9020A2
1.2	A	150D125X9020A2	150D125X9020A2
1.5	A	150D155X0020A2	150D155X9020A2
1.8	A	150D185X9020A2	150D185X9020A2
2.2	A	150D225X0020A2	150D225X9020A2
2.7	B	150D275X9020B2	150D275X9020B2
3.3	B	150D335X0020B2	150D335X9020B2
3.9	B	150D395X9020B2	150D395X9020B2
4.7	B	150D475X0020B2	150D475X9020B2
5.6	B	150D565X9020B2	150D565X9020B2
6.8	B	150D685X0020B2	150D685X9020B2
8.2	B	150D825X9020B2	150D825X9020B2
10	B	150D106X0020B2	150D106X9020B2
12	B	150D126X9020B2	150D126X9020B2
15	B	150D156X0020B2	150D156X9020B2
22	R	150D226X0020R2	150D226X0020R2
33	R	150D336X0020R2	150D336X0020R2
47	R	150D476X0020R2	150D476X0020R2
68	S	150D686X0020S2	150D686X0020S2
100	S	150D107X0020S2	150D107X0020S2

Size		Catalog Number	
μF	Code	+20% Tol.	+10% Tol.
35 WVDC — 40 VDC SURGE			
.0047	A	150D472X0035A2	150D472X9035A2
.0056	A	150D562X9035A2	150D562X9035A2
.0068	A	150D682X0035A2	150D682X9035A2
.0082	A	150D822X9035A2	150D822X9035A2
.01	A	150D103X0035A2	150D103X9035A2
.012	A	150D123X9035A2	150D123X9035A2
.015	A	150D153X0035A2	150D153X9035A2
.018	A	150D183X9035A2	150D183X9035A2
.022	A	150D223X0035A2	150D223X9035A2
.027	A	150D273X9035A2	150D273X9035A2
.033	A	150D333X0035A2	150D333X9035A2
.039	A	150D393X9035A2	150D393X9035A2
.047	A	150D473X0035A2	150D473X9035A2
.056	A	150D563X9035A2	150D563X9035A2
.068	A	150D683X0035A2	150D683X9035A2
.082	A	150D823X9035A2	150D823X9035A2
.10	A	150D104X0035A2	150D104X9035A2
.12	A	150D124X9035A2	150D124X9035A2
.15	A	150D154X0035A2	150D154X9035A2
.18	A	150D184X9035A2	150D184X9035A2
.22	A	150D224X0035A2	150D224X9035A2
.27	A	150D274X9035A2	150D274X9035A2
.33	A	150D334X0035A2	150D334X9035A2
.39	A	150D394X9035A2	150D394X9035A2
.47	A	150D474X0035A2	150D474X9035A2
.56	A	150D564X9035A2	150D564X9035A2
.68	A	150D684X0035A2	150D684X9035A2
.82	A	150D824X9035A2	150D824X9035A2
1.0	A	150D105X0035A2	150D105X9035A2
1.2	B		

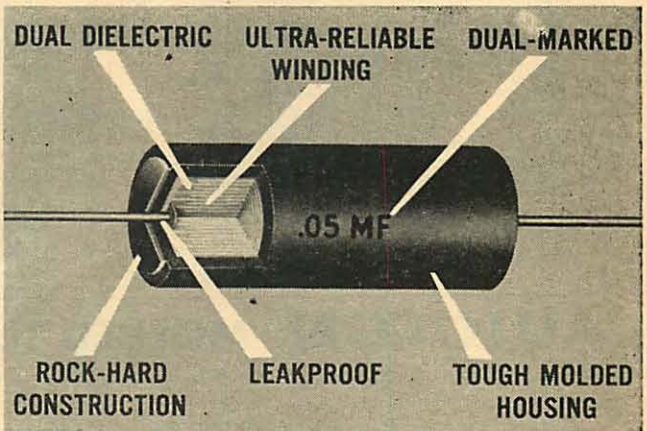
SPRAGUE CAPACITORS

DIFILM[®] BLACK BEAUTY[®] MOLDED TUBULARS



The World's Best Molded Tubular at No Extra Cost!

- Developed especially for long life under high humidity and temperature operating conditions
- Dual dielectric (Mylar[®]-paper) combines best features of both Mylar[®] polyester film and paper capacitors
- Exclusive HCX[®] solid impregnant construction produces rock-hard capacitor section
- Won't leak or drip
- No derating for 105°C operation
- Mica-filled, non-flammable molded case. Won't crack when dropped; soldering won't harm it
- Every capacitor marked on both sides. No twisting the case to read ratings



LOOK FOR THE RED MARKINGS ON THE BLACK CASE

● Capacitance Tolerance: $\pm 10\%$ from .001 μF up

μF	D. x L.	Cat. No.	List	μF	D. x L.	Cat. No.	List	μF	D. x L.	Cat. No.	List
200 WVDC				400 WVDC (Cont.)				600 WVDC (Cont.)			
.02	$\frac{3}{8} \times \frac{1}{4}$	2TM-S2	\$.25	.04	$\frac{7}{16} \times \frac{1}{4}$	4TM-S4	\$.30	.0022	$\frac{5}{16} \times 1$	6TM-D22	\$.25
.022	$\frac{3}{8} \times \frac{1}{4}$	2TM-S22	.25	.047	$\frac{7}{16} \times \frac{1}{4}$	4TM-S47	.30	.0025	$\frac{5}{16} \times 1$	6TM-D25	.25
.047	$\frac{7}{16} \times \frac{1}{4}$	2TM-S47	.25	.05	$\frac{7}{16} \times \frac{1}{4}$	4TM-S5	.30	.003	$\frac{5}{16} \times 1$	6TM-D3	.25
.05	$\frac{7}{16} \times \frac{1}{4}$	2TM-S5	.25	.068	$\frac{1}{2} \times \frac{1}{2}$	4TM-S68	.35	.0033	$\frac{5}{16} \times 1$	6TM-D33	.25
.1	$\frac{1}{2} \times \frac{1}{2}$	2TM-P1	.35	.1	$\frac{1}{2} \times \frac{1}{2}$	4TM-P1	.35	.004	$\frac{3}{8} \times \frac{1}{4}$	6TM-D4	.25
.15	$\frac{1}{2} \times \frac{1}{2}$	2TM-P15	.35	.15	$\frac{5}{8} \times \frac{1}{8}$	4TM-P15	.40	.0047	$\frac{3}{8} \times \frac{1}{4}$	6TM-D47	.25
.22	$\frac{5}{8} \times \frac{1}{8}$	2TM-P22	.40	.2	$\frac{5}{8} \times \frac{1}{8}$	4TM-P2	.40	.005	$\frac{3}{8} \times \frac{1}{4}$	6TM-D5	.25
.25	$\frac{5}{8} \times \frac{1}{8}$	2TM-P25	.40	.22	$\frac{5}{8} \times \frac{1}{8}$	4TM-P22	.40	.006	$\frac{3}{8} \times \frac{1}{4}$	6TM-D6	.25
.47	$\frac{3}{4} \times \frac{2}{4}$	2TM-P47	.60	.25	$\frac{3}{4} \times \frac{2}{4}$	4TM-P25	.40	.0068	$\frac{3}{8} \times \frac{1}{4}$	6TM-D68	.30
.5	$\frac{3}{4} \times \frac{2}{4}$	2TM-P5	.60	.47	$\frac{3}{4} \times \frac{2}{4}$	4TM-P47	.60	.008	$\frac{3}{8} \times \frac{1}{4}$	6TM-D8	.30
1.0	$\frac{3}{4} \times \frac{2}{4}$	2TM-M1	.90	.5	$\frac{3}{4} \times \frac{2}{4}$	4TM-P5	.60	.01	$\frac{3}{8} \times \frac{1}{4}$	6TM-S1	.30
400 WVDC				600 WVDC							
.01	$\frac{3}{8} \times \frac{1}{4}$	4TM-S1	.25	.0001	$\frac{5}{16} \times 1$	6TM-T1	.25	.015	$\frac{3}{8} \times \frac{1}{4}$	6TM-S15	.30
.015	$\frac{3}{8} \times \frac{1}{4}$	4TM-S15	.25	.00025	$\frac{5}{16} \times 1$	6TM-T25	.25	.02	$\frac{7}{16} \times \frac{1}{4}$	6TM-S2	.30
.02	$\frac{3}{8} \times \frac{1}{4}$	4TM-S2	.25	.0004	$\frac{5}{16} \times 1$	6TM-T4	.25	.022	$\frac{7}{16} \times \frac{1}{4}$	6TM-S22	.30
.022	$\frac{3}{8} \times \frac{1}{4}$	4TM-S22	.30	.0005	$\frac{5}{16} \times 1$	6TM-T5	.25	.03	$\frac{7}{16} \times \frac{1}{4}$	6TM-S3	.35
.025	$\frac{7}{16} \times \frac{1}{4}$	4TM-S25	.30	.001	$\frac{5}{16} \times 1$	6TM-T1	.25	.033	$\frac{7}{16} \times \frac{1}{4}$	6TM-S33	.35
.03	$\frac{7}{16} \times \frac{1}{4}$	4TM-S3	.30	.0015	$\frac{5}{16} \times 1$	6TM-D1	.25	.035	$\frac{7}{16} \times \frac{1}{4}$	6TM-S35	.35
				.005	$\frac{5}{16} \times 1$	6TM-D15	.25	.04	$\frac{1}{2} \times \frac{1}{2}$	6TM-S4	.35
				.002	$\frac{5}{16} \times 1$	6TM-D2	.25	.047	$\frac{1}{2} \times \frac{1}{2}$	6TM-S47	.40

SPRAGUE CAPACITORS

DIFILM BLACK BEAUTY MOLDED TUBULARS, continued

μ F	D. x L.	Cat. No.	List	μ F	D. x L.	Cat. No.	List	μ F	D. x L.	Cat. No.	List
600 WVDC (Cont.)				1000 WVDC				1000 WVDC (Cont.)			
.05	1/2 x 1 1/2	6TM-S5	\$.40	.0005	5/16 x 1	10TM-T5	\$.50	.01	7/16 x 1 1/4	10TM-S1	\$.50
.06	1/2 x 1 1/2	6TM-S6	.40	.001	5/16 x 1	10TM-D1	.50	.015	1/2 x 1 1/2	10TM-S15	.50
.068	1/2 x 1 1/2	6TM-S68	.45	.0015	5/16 x 1	10TM-D15	.50	.02	1/2 x 1 1/2	10TM-S2	.50
.1	5/8 x 1 7/8	6TM-P1	.45	.002	3/8 x 1 1/4	10TM-D2	.50	.022	1/2 x 1 1/2	10TM-S22	.50
.15	5/8 x 1 7/8	6TM-P15	.50	.0022	3/8 x 1 1/4	10TM-D22	.50	.03	5/8 x 1 7/8	10TM-S3	.50
.2	3/4 x 2 1/4	6TM-P2	.55	.003	3/8 x 1 1/4	10TM-D3	.50	.035	5/8 x 1 7/8	10TM-S35	.50
.22	3/4 x 2 1/4	6TM-P22	.55	.004	3/8 x 1 1/4	10TM-D4	.50	.047	5/8 x 1 7/8	10TM-S47	.60
.25	3/4 x 2 1/4	6TM-P25	.55	.0047	3/8 x 1 1/4	10TM-D47	.50	.05	5/8 x 1 7/8	10TM-S5	.60
.5	1 x 2 1/2	6TM-P5	.80	.005	3/8 x 1 1/4	10TM-D5	.50	.068	5/8 x 1 7/8	10TM-S68	.70
1.0	1 x 2 1/2	6TM-M1	1.25	.0068	3/8 x 1 1/4	10TM-D68	.50	.1	3/4 x 2 1/4	10TM-P1	.75

MINERAL-OIL BLACK BEAUTY[®] MOLDED TUBULARS

● Similar in appearance to Difilm Black Beauty Capacitors except all paper dielectric, impregnated with mineral oil for best high voltage performance ● Operating Temperature: 85°C

1600 WVDC (Buffer)				6000 WVDC			
.0005	3/8 x 1 1/4	MB-T5	.65	.0005	1/2 x 1 1/2	TVM-356	1.35
.001	3/8 x 1 1/4	MB-D1	.65	.001	1/2 x 1 1/2	TVM-216	1.35
.0015	3/8 x 1 1/4	MB-D15	.65	.005	5/8 x 1 7/8	TVM-256	1.35
.002	3/8 x 1 1/4	MB-D2	.65	10,000 WVDC			
.0022	3/8 x 1 1/4	MB-D22	.65	.0005	5/8 x 1 7/8	TVM-351	1.50
.003	7/16 x 1 1/4	MB-D3	.65	12,500 WVDC			
.0033	7/16 x 1 1/4	MB-D33	.65	.00025	5/8 x 1 7/8	12TVM-325	1.70
.004	7/16 x 1 1/4	MB-D4	.65	1600 WVDC (Buffer)			
.0047	7/16 x 1 1/4	MB-D47	.65	.0068	1/2 x 1 1/2	MB-D68	.65
.005	7/16 x 1 1/4	MB-D5	.65	.007	1/2 x 1 1/2	MB-D7	.65
.006	1/2 x 1 1/2	MB-D6	.65	.0075	1/2 x 1 1/2	MB-D75	.65
				.008	1/2 x 1 1/2	MB-D8	.65
				.01	1/2 x 1 1/2	MB-S1	.70
				.015	5/8 x 1 7/8	MB-S15	.70
				.02	5/8 x 1 7/8	MB-S2	.70
				.022	5/8 x 1 7/8	MB-S22	.70
				.03	5/8 x 1 7/8	MB-S3	.70
				.04	5/8 x 1 7/8	MB-S4	.70
				.05	3/4 x 2 1/8	*TR-15	.70
				2 x .015	3/4 x 2	*TR-215	.80

*Supplied in waxed cardboard units pending completion of molds

AUTOCON[®] MOLDED TUBULAR CAPACITORS

- Generous 1" Lead Lengths make Autocons Universal Replacements for All Single-Ended Original Equipment Types
- Impregnated with HCX, an Exclusive New Solid Dielectric Material.
- High Insulation Resistance, Low Power Factor
- Extremely Flat Temperature-Capacitance Curve
- Premolded Thermosetting Plastic Shell with Plastic Resin Endseal for Protection Against Humidity
- Index Key on Shell Identifies Outside Foil Lead
- "Standoff" Feet Prevent Dust and Moisture Traps. Also Prevent Printed Chassis Wiring Shorts



μ F	WVDC	Diam.	Length	Cat. No.	List	μ F	WVDC	Diam.	Length	Cat. No.	List
.001	200	3/8	1 3/8	2SE-D10	\$.30	.015	400	3/8	1 3/8	4SE-S15	\$.30
.0015	200	3/8	1 3/8	2SE-D15	.30	.022	400	7/16	1 3/8	4SE-S22	.35
.0022	200	3/8	1 3/8	2SE-D22	.30	.033	400	7/16	1 3/8	4SE-S33	.35
.0033	200	3/8	1 3/8	2SE-D33	.30	.047	400	1/2	1 1/4	4SE-S47	.35
.0047	200	3/8	1 3/8	2SE-D47	.30	.068	400	1/2	1 1/2	4SE-S68	.40
.0068	200	3/8	1 3/8	2SE-D68	.30	.1	400	5/8	1 1/4	4SE-P10	.45
.01	200	3/8	1 3/8	2SE-S10	.30	.15	400	5/8	1 7/8	4SE-P15	.50
.015	200	3/8	1 3/8	2SE-S15	.30	.22	400	5/8	1 7/8	4SE-P22	.55
.022	200	3/8	1 3/8	2SE-S22	.35	.33	400	3/4	1 7/8	4SE-P33	.65
.033	200	3/8	1 3/8	2SE-S33	.35	.001	600	3/8	1 3/8	6SE-D10	.30
.047	200	7/16	1 3/8	2SE-S47	.35	.0015	600	3/8	1 3/8	6SE-D15	.30
.068	200	7/16	1 3/8	2SE-S68	.35	.0022	600	3/8	1 3/8	6SE-D22	.30
.1	200	1/2	1 1/2	2SE-P10	.40	.0033	600	3/8	1 3/8	6SE-D33	.30
.15	200	5/8	1 7/8	2SE-P15	.45	.0047	600	3/8	1 3/8	6SE-D47	.30
.22	200	5/8	1 7/8	2SE-P22	.50	.0068	600	3/8	1 3/8	6SE-D68	.30
.33	200	5/8	1 7/8	2SE-P33	.55	.01	600	3/8	1 3/8	6SE-S10	.35
.47	200	3/4	1 7/8	2SE-P47	.65	.015	600	7/16	1 3/8	6SE-S15	.35
.001	400	3/8	1 3/8	4SE-D10	.30	.022	600	7/16	1 3/8	6SE-S22	.40
.0015	400	3/8	1 3/8	4SE-D15	.30	.033	600	1/2	1 1/4	6SE-S33	.40
.0022	400	3/8	1 3/8	4SE-D22	.30	.047	600	1/2	1 1/2	6SE-S47	.45
.0033	400	3/8	1 3/8	4SE-D33	.30	.068	600	5/8	1 7/8	6SE-S68	.50
.0047	400	3/8	1 3/8	4SE-D47	.30	.1	600	5/8	1 7/8	6SE-P10	.55
.0068	400	3/8	1 3/8	4SE-D68	.30	.15	600	3/4	1 7/8	6SE-P15	.60
.01	400	3/8	1 3/8	4SE-S10	.30						

SPRAGUE CAPACITORS

EP ESTAR® MIDGET® TUBULARS

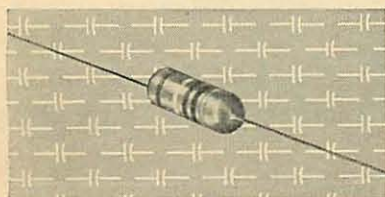
- Amazingly Small in Size Without Any Sacrifice in Performance—The Smallest Reliable Paper Tubular
- Will Fit Tight Spots in Pocket Radios, Auto Radios and Other Small Electronic Assemblies that Require High Temperature Operation, Good Humidity Performance, and Minimum Size at a Moderate Cost
- Sprague's HCX, a Solid, Synthetic Impregnant, Makes these Capacitors Leakproof



- Designed for 85°C (185°F) Operation with No Voltage Derating Necessary
- Replace Units Formerly Catalogued under 68P

μF	WVDC	D. x L.	Cat. No.	Former Cat. No.	List	μF	WVDC	D. x L.	Cat. No.	Former Cat. No.	List
.25	100	1/32 x 1 1/8	1EP-P25	68P19	\$.70	.05	400	1/32 x 1	4EP-S50	68P10	\$.50
.5	100	2/32 x 1 1/8	1EP-P50	68P20	.80	.1	400	1/32 x 1 1/8	4EP-P10	68P21	.65
.005	200	1/4 x 1 1/16	2EP-D50	68P11	.35	.2	400	5/8 x 1 1/8	4EP-P20	68P38	.70
.006	200	1/4 x 1 1/16	2EP-D60	68P12	.35	.25	400	5/8 x 1 3/8	4EP-P25	68P22	.75
.01	200	3/32 x 1 1/16	2EP-S10	68P14	.40	.5	400	5/8 x 2 1/16	4EP-P50	68P23	.85
.02	200	3/32 x 1 1/16	2EP-S20	68P15	.45	.001	600	1/4 x 1 1/16	6EP-D10	68P26	.35
.05	200	3/16 x 1	2EP-S50	68P16	.50	.002	600	1/4 x 1 1/16	6EP-D20	68P27	.35
.1	200	1/32 x 1	2EP-P10	68P17	.60	.003	600	3/32 x 1 1/16	6EP-D30	68P28	.35
.2	200	1/32 x 1 1/8	2EP-P20	68P18	.65	.004	600	3/32 x 1 3/16	6EP-D40	68P29	.35
.25	200	1/32 x 1 1/8	2EP-P25	68P24	.70	.005	600	3/32 x 1 3/16	6EP-D50	68P30	.40
.5	200	5/8 x 1 3/8	2EP-P50	68P25	.80	.006	600	5/16 x 1 3/16	6EP-D60	68P31	.40
.001	400	1/4 x 1 1/16	4EP-D10	68P1	.35	.008	600	5/16 x 1	6EP-D80	68P32	.40
.003	400	1/4 x 1 1/16	4EP-D30	68P3	.35	.01	600	5/16 x 1	6EP-S10	68P33	.45
.004	400	1/4 x 1 1/16	4EP-D40	68P4	.35	.02	600	1 1/32 x 1	6EP-S20	68P34	.50
.005	400	1/4 x 1 3/16	4EP-D50	68P5	.35	.05	600	1 1/32 x 1 1/8	6EP-S50	68P35	.55
.006	400	1/4 x 1 3/16	4EP-D60	68P6	.35	.1	600	5/8 x 1 1/8	6EP-P10	68P36	.70
.01	400	5/16 x 1 3/16	4EP-S10	68P8	.40	.2	600	5/8 x 1 1 1/16	6EP-P20	68P40	.80
.02	400	5/16 x 1	4EP-S20	68P9	.45	.25	600	5/8 x 2	6EP-P25	68P37	.80

TYPE 65P PROKAR® MOLDED TUBULARS

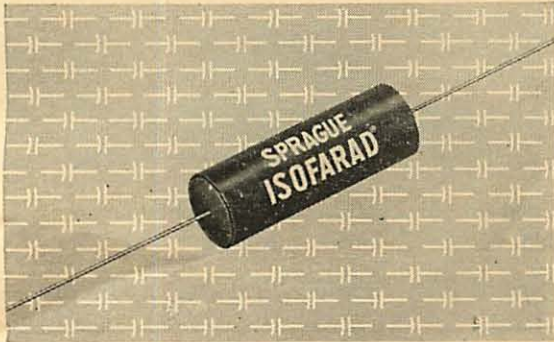


- For Applications Requiring Small Paper Capacitors for Continuous Operation at High Temperatures
- No Voltage Derating Required for 125°C Operation
- Impregnated with an Exclusive Sprague Organic Material which Polymerizes to Form a Solid Capacitor Section
- Sections Molded in Mineral-Filled High-Temperature Plastic—All cases are 1 1/16" long
- Capacitance Tolerance of these Capacitors is ±5%

μF	WVDC	Diam.	Cat. No.	μF	WVDC	Diam.	Cat. No.	μF	WVDC	Diam.	Cat. No.
.01	200	.175	65P10352	.051	200	.375	65P51352	.002	300	.175	65P20253
.015	200	.195	65P15352	.056	200	.375	65P56352	.0039	300	.175	65P39253
.02	200	.250	65P20352	.062	200	.375	65P62352	.0047	300	.175	65P47253
.022	200	.250	65P22352	.082	200	.375	65P82352	.0051	300	.175	65P51253
.03	200	.250	65P30352	.091	200	.375	65P91352	.0056	300	.175	65P56253
.033	200	.250	65P33352	.1	200	.375	65P10452	.0068	300	.175	65P68253
.039	200	.375	65P39352	.001	300	.175	65P10253	.0082	300	.195	65P82253
.047	200	.375	65P47352	.0015	300	.175	65P15253	.0091	300	.195	65P91253

SPRAGUE CAPACITORS

BF ISO FARAD* PLASTIC FILM CAPACITORS



For Applications Where the Best in Tubulars is None too Good

- Isofarad Quality is a Must in Color TV Synchronizer Circuits, Horizontal and Vertical Oscillators, Bridge and Parallel T Circuits and Other Tuned Circuit Applications Requiring Close Tolerance and Zero Temperature Coefficient of Capacitance
- Superior to Silvered Mica Capacitors in Most Applications, Yet Considerably Less Expensive
- Constant Capacitance—Will Not Change More Than $\pm 0.5\%$ from Room Temperature to $+80^\circ\text{C}$ at Maximum Rated Voltage
- For Operation to 500 WVDC—Will Withstand Operating Temperatures to 85°C (185°F)
- Capacitance Tolerance of these Units is $\pm 5\%$

*Trademark

μF	Dia. x Length	Cat. No.	List	μF	Dia. x Length	Cat. No.	List
.001	$\frac{3}{8} \times 1$	5BF-D10	\$.75	.022	$\frac{1}{2} \times 1\frac{1}{2}$	5BF-S22	\$1.50
.0012	$\frac{3}{8} \times 1$	5BF-D12	.75	.027	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S27	1.50
.0015	$\frac{3}{8} \times 1$	5BF-D15	.75	.033	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S33	1.80
.0018	$\frac{3}{8} \times 1$	5BF-D18	.75	.039	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S39	1.80
.0022	$\frac{3}{8} \times 1$	5BF-D22	.75	.047	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S47	2.10
.0027	$\frac{3}{8} \times 1$	5BF-D27	.75	.056	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S56	2.10
.0033	$\frac{3}{8} \times 1$	5BF-D33	.75	.068	$\frac{5}{8} \times 1\frac{1}{8}$	5BF-S68	2.65
.0039	$\frac{3}{8} \times 1$	5BF-D39	.80	.082	$\frac{3}{4} \times 2\frac{1}{4}$	5BF-S82	3.60
.0047	$\frac{3}{8} \times 1$	5BF-D47	.80	.1	$\frac{3}{4} \times 2\frac{1}{4}$	5BF-P10	3.60
.0056	$\frac{3}{8} \times 1\frac{1}{4}$	5BF-D56	.80	.12	$\frac{7}{8} \times 2\frac{1}{2}$	5BF-P12	4.90
.0068	$\frac{3}{8} \times 1\frac{1}{4}$	5BF-D68	.80	.15	$\frac{7}{8} \times 2\frac{1}{2}$	5BF-P15	4.90
.0082	$\frac{7}{16} \times 1\frac{1}{4}$	5BF-D82	.80	.18	$\frac{7}{8} \times 2\frac{1}{2}$	5BF-P18	6.75
.01	$\frac{7}{16} \times 1\frac{1}{4}$	5BF-S10	.90	.22	$\frac{7}{8} \times 2\frac{1}{2}$	5BF-P22	6.75
.012	$\frac{1}{2} \times 1\frac{1}{4}$	5BF-S12	.90	.27	$1 \times 2\frac{1}{2}$	5BF-P27	8.25
.015	$\frac{1}{2} \times 1\frac{1}{4}$	5BF-S15	1.25	.33	$1 \times 2\frac{1}{2}$	5BF-P33	8.25
.018	$\frac{1}{2} \times 1\frac{1}{2}$	5BF-S18	1.25				

WF YELLOW-JACKET* FILMITE® 'E' CAPACITORS

- Excellent for Use in Transistorized Circuits and Low-Voltage Electron Tube Circuits
- Extended Foil Type Sections, Wound from Selected, Ultra-Thin Polyester Film and Thin Gauge Aluminum Foil
- Outer Plastic Film Wrap and Resin End Seals Protect Against Moisture and Humidity
- "Smaller Than Small"—These Capacitors Will Fit Anywhere
- Rated at 200 WVDC—Capacitance Tolerance is $\pm 10\%$
- Designed for Operation to 85°C (185°F)

*Trademark

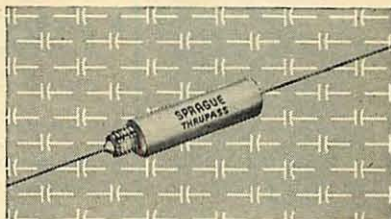


μF	Dia. x Length	Cat. No.	List	μF	Dia. x Length	Cat. No.	List
.01	$\frac{13}{64} \times \frac{1}{16}$	2WF-S10	\$.95	.12	$\frac{23}{64} \times \frac{13}{16}$	2WF-P12	\$1.05
.012	$\frac{13}{64} \times \frac{1}{16}$	2WF-S12	.95	.15	$\frac{23}{64} \times \frac{13}{16}$	2WF-P15	1.05
.015	$\frac{13}{64} \times \frac{1}{16}$	2WF-S15	.95	.18	$\frac{23}{64} \times \frac{13}{16}$	2WF-P18	1.10
.018	$\frac{13}{64} \times \frac{1}{16}$	2WF-S18	.95	.22	$\frac{23}{64} \times \frac{13}{16}$	2WF-P22	1.10
.022	$\frac{13}{64} \times \frac{1}{16}$	2WF-S22	.95	.27	$\frac{15}{32} \times \frac{13}{16}$	2WF-P27	1.10
.027	$\frac{7}{32} \times \frac{1}{16}$	2WF-S27	.95	.33	$\frac{15}{32} \times \frac{13}{16}$	2WF-P33	1.10
.033	$\frac{7}{32} \times \frac{1}{16}$	2WF-S33	1.00	.39	$\frac{35}{64} \times \frac{13}{16}$	2WF-P39	1.20
.039	$\frac{1}{4} \times \frac{1}{16}$	2WF-S39	1.00	.47	$\frac{35}{64} \times \frac{13}{16}$	2WF-P47	1.20
.047	$\frac{1}{4} \times \frac{1}{16}$	2WF-S47	1.00	.56	$\frac{35}{64} \times \frac{13}{16}$	2WF-P56	1.50
.056	$\frac{1}{4} \times \frac{13}{16}$	2WF-S56	1.00	.68	$\frac{35}{64} \times \frac{13}{16}$	2WF-P68	1.50
.068	$\frac{1}{4} \times \frac{13}{16}$	2WF-S68	1.00	.82	$\frac{15}{32} \times \frac{13}{16}$	2WF-P82	1.50
.082	$\frac{5}{16} \times \frac{13}{16}$	2WF-S82	1.00	1.0	$\frac{15}{32} \times \frac{13}{16}$	2WF-M1	1.50
.1	$\frac{5}{16} \times \frac{13}{16}$	2WF-P10	1.05				

SPRAGUE CAPACITORS

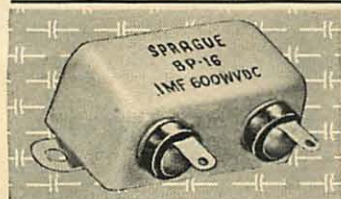
TYPE 102P, 103P 'THRU-PASS' CAPACITORS

- Designed for Radio Interference Reduction in Radar and Communication Equipment
- Performance Closer to That of Theoretically Ideal Capacitor than Any Other Paper Capacitor Ever Made
- Three-Terminal Feed-Thru Design—Connect in a Circuit in Same Manner as Low-Pass Filter
- Hermetically Sealed, with Glass-to-Metal Solder-Seal Terminals
- Impregnated with Vitamin Q, for High Insulation Resistance and Minimum Capacitance Change with Temperature
- Type 102P is Designed for Operation from -55°C to $+85^{\circ}\text{C}$; Type 103P for -55°C to $+125^{\circ}\text{C}$
- Capacitors listed below have wire leads. For tab terminals, which are also available, see your Sprague Industrial Distributor.



μF	Size Diam. x Lgth.	Catalog Number	
		85°C	125°C
100 WVDC			
.001	.400 x 3/4	102P101	103P101
.0047	.400 x 3/4	102P106	103P106
.01	.400 x 3/4	102P111	103P111
.047	.400 x 3/4	102P116	103P116
.1	.400 x 7/8	102P121	103P121
.22	.400 x 1 1/8	102P126	103P126
.33	.562 x 1 1/8	102P131	103P131
.47	.562 x 1 3/8	102P136	103P136
.68	.562 x 1 7/8	102P141	103P141
1.00	.670 x 1 7/8	102P145	103P145
200 WVDC			
.001	.400 x 3/4	102P102	103P102
.0047	.400 x 3/4	102P107	103P107
.01	.400 x 3/4	102P112	103P112
.047	.400 x 7/8	102P117	103P117
.1	.400 x 1 1/8	102P122	103P122
.22	.562 x 1 1/8	102P127	103P127
.33	.562 x 1 3/8	102P132	103P132
.47	.562 x 1 7/8	102P137	103P137
.68	.670 x 1 7/8	102P142	103P142
1.00	.760 x 2 1/8	102P146	103P146
300 WVDC			
.001	.400 x 3/4	102P103	103P103
.0047	.400 x 3/4	102P108	103P108
.01	.400 x 3/4	102P113	103P113

μF	Size Diam. x Lgth.	Catalog Number	
		85°C	125°C
300 WVDC (Continued)			
.047	.400 x 1 1/8	102P118	103P118
.1	.400 x 1 3/8	102P123	103P123
.22	.562 x 1 3/8	102P128	103P128
.33	.562 x 1 7/8	102P133	103P133
.47	.670 x 1 7/8	102P138	103P138
.68	.750 x 2 1/8	102P143	103P143
400 WVDC			
.001	.400 x 3/4	102P104	103P104
.0047	.400 x 3/4	102P109	103P109
.01	.400 x 3/4	102P114	103P114
.047	.400 x 1 1/8	102P119	103P119
.1	.562 x 1 1/8	102P124	103P124
.22	.562 x 1 7/8	102P129	103P129
.33	.670 x 1 7/8	102P134	103P134
.47	.750 x 2 1/8	102P139	103P139
.68	.750 x 2 3/8	102P144	103P144
600 WVDC			
.001	.400 x 3/4	102P105	103P105
.0047	.400 x 3/4	102P110	103P110
.01	.400 x 3/4	102P115	103P115
.047	.400 x 1 3/8	102P120	103P120
.1	.562 x 1 3/8	102P125	103P125
.22	.670 x 1 7/8	102P130	103P130
.33	.750 x 2 1/8	102P135	103P135
.47	.750 x 2 3/8	102P140	103P140



BP BATHTUB CAPACITORS

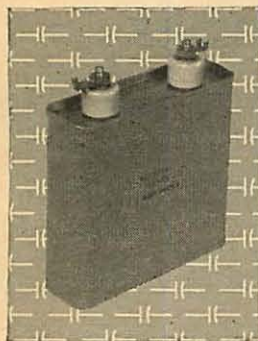
- For Applications Where Severe Operating Conditions Are Encountered
- Hermetically Sealed for Extra Protection
- Seamless Drawn Metal Can
- Oil-Filled and Oil-impregnated for Long, Dependable Service Life
- Convenient Mounting Ears are Integral Part of Metal Container

μF	L. x W. x H.	Cat. No.	List
400 WVDC			
.1	1 13/16 x 1 x 3/4	BP-1	\$2.20
.25	1 13/16 x 1 x 3/4	BP-25	2.50
.5	1 13/16 x 1 x 7/8	BP-50	2.65
1.0	2 x 1 3/4 x 7/8	BP-10	3.15
.1 + .1	1 13/16 x 1 x 3/4	BP-21	3.30
.25 + .25	1 13/16 x 1 x 7/8	BP-225	3.60
.5 + .5	2 x 1 3/4 x 7/8	BP-250	4.15
.1 + .1 + .1	1 13/16 x 1 x 3/4	BP-31	4.00
600 WVDC			
.05	1 13/16 x 1 x 3/4	BP-56	2.90
.1	1 13/16 x 1 x 3/4	BP-16	2.95
.25	1 13/16 x 1 x 3/4	BP-256	3.10
.5	1 13/16 x 1 x 7/8	BP-506	3.30
1.0	2 x 1 3/4 x 7/8	BP-106	3.75
2.0	2 x 2 x 1 1/8	BP-206	5.00
.05 + .05	1 13/16 x 1 x 3/4	BP-2056	3.65

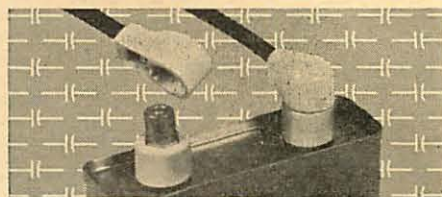
μF	L. x W. x H.	Cat. No.	List
1000 WVDC			
.1 + .1	1 13/16 x 1 x 3/4	BP-216	\$3.70
.25 + .25	1 13/16 x 1 x 7/8	BP-2256	3.75
.5 + .5	2 x 1 3/4 x 7/8	BP-2506	4.30
1.0 + 1.0	2 x 2 x 1 1/8	BP-116	5.30
.1 + .1 + .1	1 13/16 x 1 x 3/4	BP-316	4.20
.25 + .25 + .25	2 x 1 3/4 x 7/8	BP-3256	4.75
.5 + .5 + .5	2 x 2 x 1 1/8	BP-356	5.75
1000 WVDC			
.05	1 13/16 x 1 x 3/4	BP-51	3.05
.1	1 13/16 x 1 x 3/4	BP-11	3.15
.25	1 13/16 x 1 x 3/4	BP-251	3.25
.5	2 x 1 3/4 x 7/8	BP-501	3.55
1.0	2 x 2 x 1 1/8	BP-101	4.40
.05 + .05	1 13/16 x 1 x 3/4	BP-2051	3.85
.1 + .1	1 13/16 x 1 x 3/4	BP-211	4.00
.25 + .25	2 x 1 3/4 x 7/8	BP-2251	4.20
.5 + .5	2 x 2 x 1 1/8	BP-2501	5.45
.1 + .1 + .1	1 13/16 x 1 x 3/4	BP-311	4.60
.25 + .25 + .25	2 x 2 x 1 1/8	BP-3251	5.50

SPRAGUE CAPACITORS

CR RECTANGULAR OILS



- Hermetically Sealed in Rugged Rectangular Metal Cans
- Oil-Impregnated and Oil-Filled
- Extremely High Insulation Resistance
- Will Withstand High Surge Voltages and High Ambient Temperatures
- Widely used in transmitter power supplies and other high-voltage applications
- Furnished With Adapters (as shown below) to Fit Standard Transmitting Tube Grid Caps



μ F	WVDC	T. x W. x L.	Cat. No.	List	μ F	WVDC	T. x W. x L.	Cat. No.	List
.5	600	1 1/8 x 1 1/8 x 2 1/4	CR-056	\$4.70	3.0	2000	1 1/4 x 3/4 x 4 3/4	CR-32	\$13.20
1.0	600	1 1/8 x 1 1/8 x 2 1/4	CR-16	5.80	4.0	2000	2 1/4 x 3/4 x 3 3/8	CR-42	15.15
2.0	600	1 1/8 x 1 1/8 x 2 3/8	CR-26	7.15	6.0	2000	3 3/8 x 3/4 x 4 1/2	CR-62	20.10
3.0	600	1 1/8 x 1 1/8 x 3 1/4	CR-36	8.25	10.0	2000	4 3/8 x 3/4 x 4 3/4	CR-102	30.55
4.0	600	1 3/8 x 2 1/2 x 3 1/2	CR-46	9.10	.1	2500	1 3/8 x 2 1/2 x 2 1/2	CR-0125	10.15
6.0	600	1 3/8 x 2 1/2 x 4 3/4	CR-66	11.30	.5	2500	1 1/4 x 3/4 x 3 1/4	CR-0525	11.55
8.0	600	1 1/4 x 3/4 x 3 3/8	CR-86	13.50	1.0	2500	1 3/4 x 3/4 x 3 1/4	CR-125	13.20
10.0	600	1 1/4 x 3/4 x 4 3/4	CR-106	15.15	2.0	2500	1 3/4 x 3/4 x 4 3/4	CR-225	21.45
.1	1000	1 1/8 x 1 1/8 x 1 5/8	CR-011	4.15	4.0	2500	4 3/8 x 3/4 x 4 3/8	CR-425	30.00
.25	1000	1 1/8 x 1 1/8 x 2 1/4	CR-0251	4.70	.1	3000	1 3/8 x 2 1/2 x 2 1/2	CR-013	14.05
.5	1000	1 1/8 x 1 1/8 x 2 1/4	CR-051	4.95	.25	3000	1 3/8 x 2 1/2 x 2 7/8	CR-0253	14.85
1.0	1000	1 1/8 x 1 1/8 x 2 1/4	CR-11	6.35	.5	3000	1 3/8 x 2 1/2 x 4 1/4	CR-053	16.80
2.0	1000	1 1/8 x 1 1/8 x 3 3/8	CR-21	8.25	1.0	3000	2 1/4 x 3/4 x 3 3/8	CR-13	20.10
4.0	1000	1 3/8 x 2 1/2 x 4 3/4	CR-41	10.45	2.0	3000	3 3/8 x 3/4 x 4 1/2	CR-23	25.05
8.0	1000	1 1/4 x 3/4 x 4 3/4	CR-81	15.15	4.0	3000	4 3/8 x 3/4 x 4 3/4	CR-43	36.85
10.0	1000	1 3/4 x 3/4 x 4 3/4	CR-101	16.80	.1	4000	2 1/4 x 3/4 x 2 3/4	CR-014	18.00
12.0	1000	2 1/4 x 3/4 x 4 1/2	CR-121	18.15	.25	4000	2 1/4 x 3/4 x 2 3/4	CR-0254	20.00
15.0	1000	2 1/2 x 3/4 x 4 3/4	CR-151	20.10	.5	4000	2 1/4 x 3/4 x 3 3/8	CR-054	23.00
.5	1500	1 1/8 x 1 1/8 x 2 7/8	CR-0515	6.35	1.0	4000	2 1/4 x 3/4 x 5 1/8	CR-14	29.00
1.0	1500	1 3/8 x 1 1/8 x 3 3/8	CR-115	7.45	2.0	4000	4 3/8 x 3/4 x 5 1/8	CR-24	39.00
2.0	1500	1 3/8 x 2 1/2 x 4 1/4	CR-215	10.20	.2	5000	1 3/4 x 3/4 x 3 3/8	CR-025	20.00
4.0	1500	1 1/4 x 3/4 x 4 3/4	CR-415	14.05	.5	5000	2 1/4 x 3/4 x 4 1/2	CR-055	25.00
5.0	1500	1 1/4 x 3/4 x 4 3/4	CR-515	15.15	1.0	5000	4 3/8 x 3/4 x 4 3/8	CR-15	34.00
8.0	1500	2 1/2 x 3/4 x 4 3/4	CR-815	20.90	2.0	5000	4 3/8 x 3/4 x 6	CR-25	52.00
10.0	1500	3 3/8 x 3/4 x 4 3/4	CR-1015	25.05	.1	6000	2 1/4 x 3/4 x 3 3/8	CR-0160	27.00
.1	2000	1 3/8 x 2 1/2 x 2 1/2	CR-012	6.60	.2	6000	1 3/4 x 3/4 x 4 1/4	CR-0260	30.00
.25	2000	1 3/8 x 2 1/2 x 2 1/2	CR-0252	7.15	1.0	6000	4 3/8 x 3/4 x 7 1/2	CR-160	49.00
.5	2000	1 3/8 x 2 1/2 x 2 7/8	CR-052	7.45	.1	7500	2 1/4 x 3/4 x 3 3/8	CR-0175	29.00
1.0	2000	1 3/8 x 2 1/2 x 3 1/2	CR-12	9.10	.2	7500	1 3/4 x 3/4 x 4 3/4	CR-0275	33.00
2.0	2000	1 1/4 x 3/4 x 4 1/4	CR-22	10.75					

SCREWBASE PC OILS



- Oil-Impregnated
- Oil-Filled
- Screwbase Can For Easy Single Hole Mounting
- Small Size—Will Fit Tight Spaces

μ F	WVDC	Diam x Lgth.	Cat. No.	List
2	600	1 1/2 x 2 7/8	PC-26	\$5.40
3	600	1 1/2 x 3 1/2	PC-36	6.15
4	600	1 1/2 x 4 1/2	PC-46	7.10
1	1000	1 1/2 x 2 7/8	PC-11	5.00
2	1000	1 1/2 x 4 1/2	PC-21	6.30
0.5	1500	1 1/2 x 2 7/8	PC-515	5.85
1	1500	1 1/2 x 3 7/8	PC-115	6.30

PQ PHOTOFLASH CAPACITORS

DESIGNED EXPRESSLY FOR PHOTOFLASH USE—NOT COMPARABLE TO STANDARD HEAVY-DUTY CAPACITORS SUCH AS THE CR TRANSMITTING TYPES

- Oil-Impregnated and Oil Filled
- Very High Insulation Resistance
- Uniform Energy Storage
- Hermetically Sealed
- Smallest Possible Construction, without Any Sacrifice in Dependability



μ F	DC Peak* Volts	Watt/Sec. Total	Dimensions T. x W. x H.	Weight lbs.	Cat. No.	List Price
10	2500	31	2 1/4 x 3/4 x 4 1/2	1 3/4	PQ-2510	\$17.00
15	2500	47	3 3/8 x 3/4 x 4 3/8	2 1/2	PQ-2515	20.00
25	2500	78	4 3/8 x 3/4 x 5 1/4	4 1/4	PQ-2525	26.50
35	2500	109	4 3/8 x 3/4 x 7	6	PQ-2535	32.50
15	3000	67	3 3/8 x 3/4 x 4 7/8	3	PQ-315	24.50
25	4000	200	4 3/8 x 3/4 x 9 1/4	7 1/4	PQ-425	42.50

*Do not exceed Peak Voltage Rating under highest line voltage condition.

SPRAGUE CAPACITORS

VITAMIN Q[®] SUBMINIATURE PAPER CAPACITORS



These capacitors are the most widely used of all paper capacitors in commercial and military

+125°C. Because of their Vitamin Q impregnation, these subminiature capacitors have a higher insulation resistance and longer life than comparable units with ordinary oils.

electronic equipment. Hermetically sealed in metal cases, they are electrically and mechanically designed to meet stringent operating requirements.

Sprague Subminiature paper capacitors exceed the performance requirements of military specification MIL-C-25A. A limited number of the ratings shown here are listed in the military specification and should be ordered by their MIL type designation where equipment specifications so require. (See page after next)

Impregnated with Vitamin Q, a substantially linear, controlled molecular weight, hydrocarbon polymer, which is exclusive with Sprague, these dependable capacitors are available for operation in two temperature ranges: -55°C to +85°C and -55°C to

Listed below are the most popular insulated section (ungrounded case) capacitors. For information on other types, ratings, and tolerances, as well as on wax-impregnated units for absolute minimum size, consult your Sprague Industrial Distributor.

NOTE: The capacitors listed in this table have a capacitance tolerance of ±10%. For ±20% units, change the 4th digit following the letter 'P' in the catalog number from 9 to 0.

μF	WVDC	INSERTED TAB CONSTRUCTION				Size D. x L.	EXTENDED FOIL CONSTRUCTION				Size D. x L.
		TYPE 91P (85°C)		TYPE 96P (125°C)			TYPE 191P (85°C)		TYPE 196P (125°C)		
		Plain Metal Case	Metal case with Insulating Sleeve*	Plain Metal Case	Metal case with Insulating Sleeve*		Plain Metal Case	Metal case with Insulating Sleeve*	Plain Metal Case	Metal case with Insulating Sleeve*	
.001	100	91P10291S2	91P10291S4	96P10291S2	96P10291S4	.175 x 3/4	191P10291S2	191P10291S4	196P10291S2	196P10291S4	.175 x 3/4
	200	91P10292S2	91P10292S4	96P10292S2	96P10292S4	.235 x 3/4	191P10292S2	191P10292S4	196P10292S2	196P10292S4	.235 x 3/4
	300	91P10293S2	91P10293S4	96P10293S2	96P10293S4	.235 x 3/4	191P10293S2	191P10293S4	196P10293S2	196P10293S4	.235 x 3/4
	400	91P10294S2	91P10294S4	96P10294S2	96P10294S4	.235 x 3/4	191P10294S2	191P10294S4	196P10294S2	196P10294S4	.235 x 3/4
	600	91P10296S2	91P10296S4	96P10296S2	96P10296S4	.235 x 3/4	191P10296S2	191P10296S4	196P10296S2	196P10296S4	.235 x 3/4
.0015	100	91P15291S2	91P15291S4	96P15291S2	96P15291S4	.175 x 3/4	191P15291S2	191P15291S4	196P15291S2	196P15291S4	.175 x 3/4
	200	91P15292S2	91P15292S4	96P15292S2	96P15292S4	.235 x 3/4	191P15292S2	191P15292S4	196P15292S2	196P15292S4	.235 x 3/4
	300	91P15293S2	91P15293S4	96P15293S2	96P15293S4	.235 x 3/4	191P15293S2	191P15293S4	196P15293S2	196P15293S4	.235 x 3/4
	400	91P15294S2	91P15294S4	96P15294S2	96P15294S4	.235 x 3/4	191P15294S2	191P15294S4	196P15294S2	196P15294S4	.235 x 3/4
	600	91P15296S2	91P15296S4	96P15296S2	96P15296S4	.235 x 3/4	191P15296S2	191P15296S4	196P15296S2	196P15296S4	.235 x 3/4
.0022	100	91P22291S2	91P22291S4	96P22291S2	96P22291S4	.175 x 3/4	191P22291S2	191P22291S4	196P22291S2	196P22291S4	.175 x 3/4
	200	91P22292S2	91P22292S4	96P22292S2	96P22292S4	.235 x 3/4	191P22292S2	191P22292S4	196P22292S2	196P22292S4	.235 x 3/4
	300	91P22293S2	91P22293S4	96P22293S2	96P22293S4	.235 x 3/4	191P22293S2	191P22293S4	196P22293S2	196P22293S4	.235 x 3/4
	400	91P22294S2	91P22294S4	96P22294S2	96P22294S4	.235 x 3/4	191P22294S2	191P22294S4	196P22294S2	196P22294S4	.235 x 3/4
	600	91P22296S2	91P22296S4	96P22296S2	96P22296S4	.235 x 3/4	191P22296S2	191P22296S4	196P22296S2	196P22296S4	.235 x 3/4
.0033	100	91P33291S2	91P33291S4	96P33291S2	96P33291S4	.175 x 3/4	191P33291S2	191P33291S4	196P33291S2	196P33291S4	.175 x 3/4
	200	91P33292S2	91P33292S4	96P33292S2	96P33292S4	.235 x 3/4	191P33292S2	191P33292S4	196P33292S2	196P33292S4	.235 x 3/4
	300	91P33293S2	91P33293S4	96P33293S2	96P33293S4	.235 x 3/4	191P33293S2	191P33293S4	196P33293S2	196P33293S4	.235 x 3/4
	400	91P33294S2	91P33294S4	96P33294S2	96P33294S4	.235 x 3/4	191P33294S2	191P33294S4	196P33294S2	196P33294S4	.235 x 3/4
	600	91P33296S2	91P33296S4	96P33296S2	96P33296S4	.235 x 3/4	191P33296S2	191P33296S4	196P33296S2	196P33296S4	.312 x 7/8
.0047	100	91P47291S2	91P47291S4	96P47291S2	96P47291S4	.175 x 3/4	191P47291S2	191P47291S4	196P47291S2	196P47291S4	.175 x 3/4
	200	91P47292S2	91P47292S4	96P47292S2	96P47292S4	.235 x 3/4	191P47292S2	191P47292S4	196P47292S2	196P47292S4	.235 x 3/4
	300	91P47293S2	91P47293S4	96P47293S2	96P47293S4	.235 x 3/4	191P47293S2	191P47293S4	196P47293S2	196P47293S4	.235 x 3/4
	400	91P47294S2	91P47294S4	96P47294S2	96P47294S4	.235 x 3/4	191P47294S2	191P47294S4	196P47294S2	196P47294S4	.312 x 7/8
	600	91P47296S2	91P47296S4	96P47296S2	96P47296S4	.235 x 3/4	191P47296S2	191P47296S4	196P47296S2	196P47296S4	.312 x 7/8
.0068	100	91P68291S2	91P68291S4	96P68291S2	96P68291S4	.175 x 3/4	191P68291S2	191P68291S4	196P68291S2	196P68291S4	.195 x 3/4
	200	91P68292S2	91P68292S4	96P68292S2	96P68292S4	.235 x 3/4	191P68292S2	191P68292S4	196P68292S2	196P68292S4	.235 x 3/4
	300	91P68293S2	91P68293S4	96P68293S2	96P68293S4	.235 x 3/4	191P68293S2	191P68293S4	196P68293S2	196P68293S4	.312 x 7/8
	400	91P68294S2	91P68294S4	96P68294S2	96P68294S4	.235 x 3/4	191P68294S2	191P68294S4	196P68294S2	196P68294S4	.312 x 7/8
	600	91P68296S2	91P68296S4	96P68296S2	96P68296S4	.235 x 3/4	191P68296S2	191P68296S4	196P68296S2	196P68296S4	.312 x 7/8
.01	100	91P10391S2	91P10391S4	96P10391S2	96P10391S4	.175 x 3/4	191P10391S2	191P10391S4	196P10391S2	196P10391S4	.235 x 3/4
	200	91P10392S2	91P10392S4	96P10392S2	96P10392S4	.235 x 3/4	191P10392S2	191P10392S4	196P10392S2	196P10392S4	.312 x 7/8
	300	91P10393S2	91P10393S4	96P10393S2	96P10393S4	.235 x 3/4	191P10393S2	191P10393S4	196P10393S2	196P10393S4	.312 x 7/8
	400	91P10394S2	91P10394S4	96P10394S2	96P10394S4	.235 x 3/4	191P10394S2	191P10394S4	196P10394S2	196P10394S4	.312 x 7/8
	600	91P10396S2	91P10396S4	96P10396S2	96P10396S4	.312 x 7/8	191P10396S2	191P10396S4	196P10396S2	196P10396S4	.312 x 7/8
.015	100	91P15391S2	91P15391S4	96P15391S2	96P15391S4	.175 x 3/4	191P15391S2	191P15391S4	196P15391S2	196P15391S4	.235 x 3/4
	200	91P15392S2	91P15392S4	96P15392S2	96P15392S4	.235 x 3/4	191P15392S2	191P15392S4	196P15392S2	196P15392S4	.312 x 7/8
	300	91P15393S2	91P15393S4	96P15393S2	96P15393S4	.235 x 3/4	191P15393S2	191P15393S4	196P15393S2	196P15393S4	.312 x 7/8
	400	91P15394S2	91P15394S4	96P15394S2	96P15394S4	.312 x 7/8	191P15394S2	191P15394S4	196P15394S2	196P15394S4	.312 x 7/8
	600	91P15396S2	91P15396S4	96P15396S2	96P15396S4	.312 x 7/8	191P15396S2	191P15396S4	196P15396S2	196P15396S4	.400 x 7/8

*On Style 4 units (metal case with insulating sleeve) add .0625" to Diameter and 1/16" to Length.

SPRAGUE CAPACITORS

VITAMIN Q[®] SUBMINIATURE PAPER CAPACITORS, continued

μF	WVDC	INSERTED TAB CONSTRUCTION				Size D. x L.	EXTENDED FOIL CONSTRUCTION				Size D. x L.
		TYPE 91P (85°C)		TYPE 96P (125°C)			TYPE 191P (85°C)		TYPE 196P (125°C)		
		Plain Metal Case	Metal case with Insulat- ing Sleeve*	Plain Metal Case	Metal case with Insulat- ing Sleeve*		Plain Metal Case	Metal case with Insulat- ing Sleeve*	Plain Metal Case	Metal case with Insulat- ing Sleeve*	
.022	100	91P22391S2	91P22391S4	96P22391S2	96P22391S4	.195 x 3/4	191P22391S2	191P22391S4	196P22391S2	196P22391S4	.312 x 7/8
	200	91P22392S2	91P22392S4	96P22392S2	96P22392S4	.235 x 3/4	191P22392S2	191P22392S4	196P22392S2	196P22392S4	.312 x 7/8
	300	91P22393S2	91P22393S4	96P22393S2	96P22393S4	.312 x 7/8	191P22393S2	191P22393S4	196P22393S2	196P22393S4	.312 x 7/8
	400	91P22394S2	91P22394S4	96P22394S2	96P22394S4	.312 x 7/8	191P22394S2	191P22394S4	196P22394S2	196P22394S4	.400 x 7/8
	600	91P22396S2	91P22396S4	96P22396S2	96P22396S4	.312 x 7/8	191P22396S2	191P22396S4	196P22396S2	196P22396S4	.400 x 7/8
.033	100	91P33391S2	91P33391S4	96P33391S2	96P33391S4	.235 x 3/4	191P33391S2	191P33391S4	196P33391S2	196P33391S4	.312 x 7/8
	200	91P33392S2	91P33392S4	96P33392S2	96P33392S4	.312 x 7/8	191P33392S2	191P33392S4	196P33392S2	196P33392S4	.312 x 7/8
	300	91P33393S2	91P33393S4	96P33393S2	96P33393S4	.312 x 7/8	191P33393S2	191P33393S4	196P33393S2	196P33393S4	.400 x 7/8
	400	91P33394S2	91P33394S4	96P33394S2	96P33394S4	.312 x 7/8	191P33394S2	191P33394S4	196P33394S2	196P33394S4	.400 x 7/8
	600	91P33396S2	91P33396S4	96P33396S2	96P33396S4	.400 x 7/8	191P33396S2	191P33396S4	196P33396S2	196P33396S4	.400 x 1 1/8
.047	100	91P47391S2	91P47391S4	96P47391S2	96P47391S4	.312 x 7/8	191P47391S2	191P47391S4	196P47391S2	196P47391S4	.312 x 7/8
	200	91P47392S2	91P47392S4	96P47392S2	96P47392S4	.312 x 7/8	191P47392S2	191P47392S4	196P47392S2	196P47392S4	.400 x 7/8
	300	91P47393S2	91P47393S4	96P47393S2	96P47393S4	.312 x 7/8	191P47393S2	191P47393S4	196P47393S2	196P47393S4	.400 x 7/8
	400	91P47394S2	91P47394S4	96P47394S2	96P47394S4	.400 x 7/8	191P47394S2	191P47394S4	196P47394S2	196P47394S4	.400 x 1 1/8
	600	91P47396S2	91P47396S4	96P47396S2	96P47396S4	.400 x 1 1/8	191P47396S2	191P47396S4	196P47396S2	196P47396S4	.400 x 1 1/8
.068	100	91P68391S2	91P68391S4	96P68391S2	96P68391S4	.312 x 7/8	191P68391S2	191P68391S4	196P68391S2	196P68391S4	.400 x 7/8
	200	91P68392S2	91P68392S4	96P68392S2	96P68392S4	.312 x 7/8	191P68392S2	191P68392S4	196P68392S2	196P68392S4	.400 x 7/8
	300	91P68393S2	91P68393S4	96P68393S2	96P68393S4	.400 x 7/8	191P68393S2	191P68393S4	196P68393S2	196P68393S4	.400 x 1 1/8
	400	91P68394S2	91P68394S4	96P68394S2	96P68394S4	.400 x 1 1/8	191P68394S2	191P68394S4	196P68394S2	196P68394S4	.400 x 1 1/8
	600	91P68396S2	91P68396S4	96P68396S2	96P68396S4	.400 x 1 1/8	191P68396S2	191P68396S4	196P68396S2	196P68396S4	.562 x 1 1/8
.1	100	91P10491S2	91P10491S4	96P10491S2	96P10491S4	.312 x 7/8	191P10491S2	191P10491S4	196P10491S2	196P10491S4	.400 x 7/8
	200	91P10492S2	91P10492S4	96P10492S2	96P10492S4	.400 x 7/8	191P10492S2	191P10492S4	196P10492S2	196P10492S4	.400 x 1 1/8
	300	91P10493S2	91P10493S4	96P10493S2	96P10493S4	.400 x 1 1/8	191P10493S2	191P10493S4	196P10493S2	196P10493S4	.400 x 1 1/8
	400	91P10494S2	91P10494S4	96P10494S2	96P10494S4	.400 x 1 1/8	191P10494S2	191P10494S4	196P10494S2	196P10494S4	.562 x 1 1/8
	600	91P10496S2	91P10496S4	96P10496S2	96P10496S4	.562 x 1 1/8	191P10496S2	191P10496S4	196P10496S2	196P10496S4	.562 x 1 1/8
.15	100	91P15491S2	91P15491S4	96P15491S2	96P15491S4	.400 x 7/8	191P15491S2	191P15491S4	196P15491S2	196P15491S4	.400 x 1 1/8
	200	91P15492S2	91P15492S4	96P15492S2	96P15492S4	.400 x 1 1/8	191P15492S2	191P15492S4	196P15492S2	196P15492S4	.400 x 1 1/8
	300	91P15493S2	91P15493S4	96P15493S2	96P15493S4	.400 x 1 1/8	191P15493S2	191P15493S4	196P15493S2	196P15493S4	.562 x 1 1/8
	400	91P15494S2	91P15494S4	96P15494S2	96P15494S4	.562 x 1 1/8	191P15494S2	191P15494S4	196P15494S2	196P15494S4	.562 x 1 1/8
	600	91P15496S2	91P15496S4	96P15496S2	96P15496S4	.562 x 1 1/8	191P15496S2	191P15496S4	196P15496S2	196P15496S4	.562 x 1 1/8
.22	100	91P22491S2	91P22491S4	96P22491S2	96P22491S4	.400 x 1 1/8	191P22491S2	191P22491S4	196P22491S2	196P22491S4	.400 x 1 1/8
	200	91P22492S2	91P22492S4	96P22492S2	96P22492S4	.400 x 1 1/8	191P22492S2	191P22492S4	196P22492S2	196P22492S4	.562 x 1 1/8
	300	91P22493S2	91P22493S4	96P22493S2	96P22493S4	.562 x 1 1/8	191P22493S2	191P22493S4	196P22493S2	196P22493S4	.562 x 1 1/8
	400	91P22494S2	91P22494S4	96P22494S2	96P22494S4	.562 x 1 1/8	191P22494S2	191P22494S4	196P22494S2	196P22494S4	.562 x 1 1/8
	600	91P22496S2	91P22496S4	96P22496S2	96P22496S4	.562 x 1 1/8	191P22496S2	191P22496S4	196P22496S2	196P22496S4	.670 x 1 1/8
.33	100	91P33491S2	91P33491S4	96P33491S2	96P33491S4	.400 x 1 1/8	191P33491S2	191P33491S4	196P33491S2	196P33491S4	.562 x 1 1/8
	200	91P33492S2	91P33492S4	96P33492S2	96P33492S4	.562 x 1 1/8	191P33492S2	191P33492S4	196P33492S2	196P33492S4	.562 x 1 1/8
	300	91P33493S2	91P33493S4	96P33493S2	96P33493S4	.562 x 1 1/8	191P33493S2	191P33493S4	196P33493S2	196P33493S4	.562 x 1 1/8
	400	91P33494S2	91P33494S4	96P33494S2	96P33494S4	.562 x 1 1/8	191P33494S2	191P33494S4	196P33494S2	196P33494S4	.670 x 1 1/8
	600	91P33496S2	91P33496S4	96P33496S2	96P33496S4	.670 x 1 1/8	191P33496S2	191P33496S4	196P33496S2	196P33496S4	.750 x 2 1/8
.47	100	91P47491S2	91P47491S4	96P47491S2	96P47491S4	.562 x 1 1/8	191P47491S2	191P47491S4	196P47491S2	196P47491S4	.562 x 1 1/8
	200	91P47492S2	91P47492S4	96P47492S2	96P47492S4	.562 x 1 1/8	191P47492S2	191P47492S4	196P47492S2	196P47492S4	.562 x 1 1/8
	300	91P47493S2	91P47493S4	96P47493S2	96P47493S4	.670 x 1 1/8	191P47493S2	191P47493S4	196P47493S2	196P47493S4	.670 x 1 1/8
	400	91P47494S2	91P47494S4	96P47494S2	96P47494S4	.670 x 1 1/8	191P47494S2	191P47494S4	196P47494S2	196P47494S4	.750 x 2 1/8
	600	91P47496S2	91P47496S4	96P47496S2	96P47496S4	.750 x 2 1/8	191P47496S2	191P47496S4	196P47496S2	196P47496S4	.750 x 2 1/8
.68	100	91P68491S2	91P68491S4	96P68491S2	96P68491S4	.562 x 1 1/8	191P68491S2	191P68491S4	196P68491S2	196P68491S4	.562 x 1 1/8
	200	91P68492S2	91P68492S4	96P68492S2	96P68492S4	.562 x 1 1/8	191P68492S2	191P68492S4	196P68492S2	196P68492S4	.670 x 1 1/8
	300	91P68493S2	91P68493S4	96P68493S2	96P68493S4	.670 x 1 1/8	191P68493S2	191P68493S4	196P68493S2	196P68493S4	.750 x 2 1/8
1.0	100	91P10591S2	91P10591S4	96P10591S2	96P10591S4	.562 x 1 1/8	191P10591S2	191P10591S4	196P10591S2	196P10591S4	.670 x 1 1/8
	200	91P10592S2	91P10592S4	96P10592S2	96P10592S4	.670 x 1 1/8	191P10592S2	191P10592S4	196P10592S2	196P10592S4	.750 x 2 1/8

*On Style 4 units (metal case with insulating sleeve) add .0625" to Diameter and 1/16" to Length.

CHOICE OF INSERTED TAB OR EXTENDED FOIL CONSTRUCTION

In the past, inserted tab capacitors have not been recommended for low-voltage applications (e.g., below 10 volts) but recent improvements in design now make it possible to recommend them for operation at all voltages from 1 to rated, in nearly all applications.

From the application standpoint, the principal difference between the two construction types is that, at

resonance, losses are likely to be lower in the extended foil type. This is because the resistive component of impedance is likely to be higher at resonance in the inserted tab type of construction. Unless unusual circuit requirements make the losses at resonance a critical factor, the inserted tab construction is recommended, primarily because of the smaller size of the capacitor roll.

SPRAGUE CAPACITORS

MIL-C-25A CAPACITORS — TYPES CPO4 and CPO5



- Impregnation with Vitamin Q assures capacitors exceed MIL-C-25A performance requirements.
- Inserted tab construction for applications where minimum size is necessary.
- Positive hermetic closure of the metal cases assured by glass-to-metal solder-seal terminals.
- Type CPO4 has plain metal case—Type CPO5 has insulating sleeve.
- Available in Characteristic E (—55°C to +85°C) or Characteristic K (—55°C to +125°C).
- Only popular insulated section (ungrounded case) capacitors are listed. For information on grounded case units, consult your Sprague Industrial Distributor.

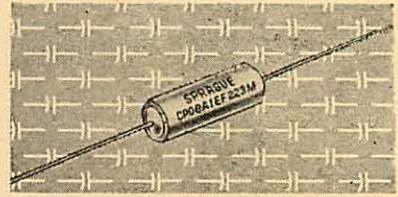
NOTE: The capacitors listed in this table have a capacitance tolerance of $\pm 10\%$. For $\pm 20\%$ units, change the last letter in the catalog number from K to M.

μF	WVDC	TYPE CPO4 Plain Metal Case			TYPE CPO5 Metal Case with Insulating Sleeve		
		Char. E —55°C to +85°C	Char. K —55°C to +125°C	Size D. x L.	Char. E —55°C to +85°C	Char. K —55°C to +125°C	Size D. x L.
		CP04A1EF102K	CP04A1KF102K	.235 x 3/4	CP05A1EF102K	CP05A1KF102K	.298 x 13/16
.0015	600	CP04A1EF152K	CP04A1KF152K	.235 x 3/4	CP05A1EF152K	CP05A1KF152K	.298 x 13/16
.0022	600	CP04A1EF222K	CP04A1KF222K	.235 x 3/4	CP05A1EF222K	CP05A1KF222K	.298 x 13/16
.0033	600	CP04A1EF332K	CP04A1KF332K	.235 x 3/4	CP05A1EF332K	CP05A1KF332K	.298 x 13/16
.0047	600	CP04A1EF472K	CP04A1KF472K	.235 x 3/4	CP05A1EF472K	CP05A1KF472K	.298 x 13/16
.0068	600	CP04A1EF682K	CP04A1KF682K	.235 x 3/4	CP05A1EF682K	CP05A1KF682K	.298 x 13/16
.01	400	CP04A1EE103K	CP04A1KE103K	.235 x 3/4	CP05A1EE103K	CP05A1KE103K	.298 x 13/16
	600	CP04A1EF103K	CP04A1KF103K	.312 x 3/8	CP05A1EF103K	CP05A1KF103K	.375 x 13/16
.015	200	CP04A1EC153K	CP04A1KC153K	.235 x 3/4	CP05A1EC153K	CP05A1KC153K	.298 x 13/16
	600	CP04A1EF153K	CP04A1KF153K	.312 x 7/8	CP05A1EF153K	CP05A1KF153K	.375 x 13/16
.022	200	CP04A1EC223K	CP04A1KC223K	.235 x 3/4	CP05A1EC223K	CP05A1KC223K	.298 x 13/16
	600	CP04A1EF223K	CP04A1KF223K	.312 x 7/8	CP05A1EF223K	CP05A1KF223K	.375 x 13/16
.033	100	CP04A1EB333K	CP04A1KB333K	.235 x 3/4	CP05A1EB333K	CP05A1KB333K	.298 x 13/16
	400	CP04A1EE333K	CP04A1KE333K	.312 x 7/8	CP05A1EE333K	CP05A1KE333K	.375 x 13/16
	600	CP04A1EF333K	CP04A1KF333K	.400 x 7/8	CP05A1EF333K	CP05A1KF333K	.463 x 13/16
.047	200	CP04A1EC473K	CP04A1KC473K	.312 x 7/8	CP05A1EC473K	CP05A1KC473K	.375 x 13/16
	400	CP04A1EE473K	CP04A1KE473K	.400 x 7/8	CP05A1EE473K	CP05A1KE473K	.463 x 13/16
	600	CP04A1EF473K	CP04A1KF473K	.400 x 1 1/8	CP05A1EF473K	CP05A1KF473K	.463 x 13/16
.068	200	CP04A1EC683K	CP04A1KC683K	.312 x 7/8	CP05A1EC683K	CP05A1KC683K	.375 x 13/16
	400	CP04A1EE683K	CP04A1KE683K	.400 x 1 1/8	CP05A1EE683K	CP05A1KE683K	.463 x 13/16
	600	CP04A1EF683K	CP04A1KF683K	.400 x 1 1/8	CP05A1EF683K	CP05A1KF683K	.463 x 13/16
.1	100	CP04A1EB104K	CP04A1KB104K	.312 x 7/8	CP05A1EB104K	CP05A1KB104K	.375 x 13/16
	200	CP04A1EC104K	CP04A1KC104K	.400 x 7/8	CP05A1EC104K	CP05A1KC104K	.463 x 13/16
	400	CP04A1EE104K	CP04A1KE104K	.400 x 1 1/8	CP05A1EE104K	CP05A1KE104K	.463 x 13/16
	600	CP04A1EF104K	CP04A1KF104K	.562 x 1 1/8	CP05A1EF104K	CP05A1KF104K	.625 x 13/16
.15	100	CP04A1EB154K	CP04A1KB154K	.400 x 7/8	CP05A1EB154K	CP05A1KB154K	.463 x 13/16
	200	CP04A1EC154K	CP04A1KC154K	.400 x 1 1/8	CP05A1EC154K	CP05A1KC154K	.463 x 13/16
	400	CP04A1EE154K	CP04A1KE154K	.562 x 1 1/8	CP05A1EE154K	CP05A1KE154K	.625 x 13/16
	600	CP04A1EF154K	CP04A1KF154K	.562 x 1 1/8	CP05A1EF154K	CP05A1KF154K	.625 x 13/16
.22	100	CP04A1EB224K	CP04A1KB224K	.400 x 1 1/8	CP05A1EB224K	CP05A1KB224K	.463 x 13/16
	200	CP04A1EC224K	CP04A1KC224K	.400 x 1 1/8	CP05A1EC224K	CP05A1KC224K	.463 x 13/16
	400	CP04A1EE224K	CP04A1KE224K	.562 x 1 1/8	CP05A1EE224K	CP05A1KE224K	.625 x 13/16
	600	CP04A1EF224K	CP04A1KF224K	.562 x 1 1/8	CP05A1EF224K	CP05A1KF224K	.625 x 13/16
.33	100	CP04A1EB334K	CP04A1KB334K	.400 x 1 1/8	CP05A1EB334K	CP05A1KB334K	.463 x 13/16
	200	CP04A1EC334K	CP04A1KC334K	.562 x 1 1/8	CP05A1EC334K	CP05A1KC334K	.625 x 13/16
	400	CP04A1EE334K	CP04A1KE334K	.562 x 1 1/8	CP05A1EE334K	CP05A1KE334K	.625 x 13/16
	600	CP04A1EF334K	CP04A1KF334K	.670 x 1 1/8	CP05A1EF334K	CP05A1KF334K	.733 x 13/16
.47	100	CP04A1EB474K	CP04A1KB474K	.562 x 1 1/8	CP05A1EB474K	CP05A1KB474K	.625 x 13/16
	200	CP04A1EC474K	CP04A1KC474K	.562 x 1 1/8	CP05A1EC474K	CP05A1KC474K	.625 x 13/16
	400	CP04A1EE474K	CP04A1KE474K	.670 x 1 1/8	CP05A1EE474K	CP05A1KE474K	.733 x 13/16
	600	CP04A1EF474K	CP04A1KF474K	.750 x 2 1/8	CP05A1EF474K	CP05A1KF474K	.813 x 2 1/8
.68	100	CP04A1EB684K	CP04A1KB684K	.562 x 1 1/8	CP05A1EB684K	CP05A1KB684K	.625 x 13/16
	200	CP04A1EC684K	CP04A1KC684K	.562 x 1 1/8	CP05A1EC684K	CP05A1KC684K	.625 x 13/16
	400	CP04A1EE684K	CP04A1KE684K	.750 x 2 1/8	CP05A1EE684K	CP05A1KE684K	.813 x 2 1/8
	600	CP04A1EF684K	CP04A1KF684K	1.0 x 1 1/8	CP05A1EF684K	CP05A1KF684K	1.063 x 1 1/8
1.0	100	CP04A1EB105K	CP04A1KB105K	.562 x 1 1/8	CP05A1EB105K	CP05A1KB105K	.625 x 13/16
	200	CP04A1EC105K	CP04A1KC105K	.670 x 1 1/8	CP05A1EC105K	CP05A1KC105K	.733 x 13/16
	400	CP04A1EF105K	CP04A1KF105K	1.0 x 1 1/8	CP05A1EF105K	CP05A1KF105K	1.063 x 13/16

SPRAGUE CAPACITORS

MIL-C-25A CAPACITORS — TYPES CP08 and CP09

- Vitamin Q impregnation assures performance above and beyond MIL-C-25A requirements.
- Positive hermetic closure of the metal cases with glass-to-metal solder-seal terminals.
- Available in Characteristic E (—55°C to +85°C) or Characteristic K (—55°C to +125°C).
- Type CP08 has plain metal case— Type CP09 has insulating sleeve.
- Extended foil (so-called non-inductive section) construction.
- Listed below are popular insulated section (ungrounded case) capacitors. Consult your Sprague Industrial Distributor for information on grounded case units.

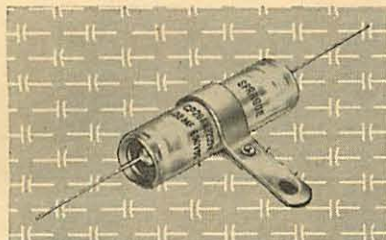


NOTE: The capacitors listed in this table have a capacitance tolerance of $\pm 10\%$. For $\pm 20\%$ units, change the last letter in the catalog number from K to M.

μF	WVDC	TYPE CP08			TYPE CP09		
		Plain Metal Case			Metal Case with Insulating Sleeve		
		Char. E —55°C to +85°C	Char. K —55°C to +125°C	Size D. x L.	Char. E —55°C to +85°C	Char. K —55°C to +125°C	Size D. x L.
.001	600	CP08A1EF102K	CP08A1KF102K	.235 x 3/4	CP09A1EF102K	CP09A1KF102K	.298 x 13/16
.0015	600	CP08A1EF152K	CP08A1KF152K	.235 x 3/4	CP09A1EF152K	CP09A1KF152K	.298 x 13/16
.0022	600	CP08A1EF222K	CP08A1KF222K	.235 x 3/4	CP09A1EF222K	CP09A1KF222K	.298 x 13/16
.0033	400	CP08A1EC332K	CP08A1KE332K	.235 x 3/4	CP09A1EC332K	CP09A1KE332K	.298 x 13/16
	600	CP08A1EF332K	CP08A1KF332K	.312 x 7/8	CP09A1EF332K	CP09A1KF332K	.375 x 15/16
.0047	200	CP08A1EC472K	CP08A1KC472K	.235 x 3/4	CP09A1EC472K	CP09A1KC472K	.298 x 13/16
	600	CP08A1EF472K	CP08A1KF472K	.312 x 7/8	CP09A1EF472K	CP09A1KF472K	.375 x 15/16
.0068	200	CP08A1EC682K	CP08A1KC682K	.235 x 3/4	CP09A1EC682K	CP09A1KC682K	.298 x 13/16
	600	CP08A1EF682K	CP08A1KF682K	.312 x 7/8	CP09A1EF682K	CP09A1KF682K	.375 x 15/16
.01	100	CP08A1EB103K	CP08A1KB103K	.235 x 3/4	CP09A1EB103K	CP09A1KB103K	.298 x 13/16
	600	CP08A1EF103K	CP08A1KF103K	.312 x 7/8	CP09A1EF103K	CP09A1KF103K	.375 x 15/16
.015	100	CP08A1EB153K	CP08A1KB153K	.235 x 3/4	CP09A1EB153K	CP09A1KB153K	.298 x 13/16
	400	CP08A1EE153K	CP08A1KE153K	.312 x 7/8	CP09A1EE153K	CP09A1KE153K	.375 x 15/16
	600	CP08A1EF153K	CP08A1KF153K	.400 x 7/8	CP09A1EF153K	CP09A1KF153K	.463 x 15/16
.022	200	CP08A1EC223K	CP08A1KC223K	.312 x 7/8	CP09A1EC223K	CP09A1KC223K	.375 x 15/16
	600	CP08A1EF223K	CP08A1KF223K	.400 x 7/8	CP09A1EF223K	CP09A1KF223K	.463 x 15/16
.033	200	CP08A1EC333K	CP08A1KC333K	.312 x 7/8	CP09A1EC333K	CP09A1KC333K	.375 x 15/16
	400	CP08A1EE333K	CP08A1KE333K	.400 x 7/8	CP09A1EE333K	CP09A1KE333K	.463 x 15/16
	600	CP08A1EF333K	CP08A1KF333K	.400 x 1 1/8	CP09A1EF333K	CP09A1KF333K	.463 x 15/16
.047	100	CP08A1EB473K	CP08A1KB473K	.312 x 7/8	CP09A1EB473K	CP09A1KB473K	.375 x 15/16
	200	CP08A1EC473K	CP08A1KC473K	.400 x 7/8	CP09A1EC473K	CP09A1KC473K	.463 x 15/16
	400	CP08A1EE473K	CP08A1KE473K	.400 x 1 1/8	CP09A1EE473K	CP09A1KE473K	.463 x 15/16
	600	CP08A1EF473K	CP08A1KF473K	.400 x 1 1/8	CP09A1EF473K	CP09A1KF473K	.463 x 15/16
.068	200	CP08A1EC683K	CP08A1KC683K	.400 x 7/8	CP09A1EC683K	CP09A1KC683K	.463 x 15/16
	400	CP08A1EE683K	CP08A1KE683K	.400 x 1 1/8	CP09A1EE683K	CP09A1KE683K	.463 x 15/16
	600	CP08A1EF683K	CP08A1KF683K	.562 x 1 1/8	CP09A1EF683K	CP09A1KF683K	.625 x 1 1/8
.1	100	CP08A1EB104K	CP08A1KB104K	.400 x 7/8	CP09A1EB104K	CP09A1KB104K	.463 x 15/16
	200	CP08A1EC104K	CP08A1KC104K	.400 x 1 1/8	CP09A1EC104K	CP09A1KC104K	.463 x 15/16
	400	CP08A1EE104K	CP08A1KE104K	.562 x 1 1/8	CP09A1EE104K	CP09A1KE104K	.625 x 1 1/8
	600	CP08A1EF104K	CP08A1KF104K	.562 x 1 1/8	CP09A1EF104K	CP09A1KF104K	.625 x 1 1/8
.15	100	CP08A1EB154K	CP08A1KB154K	.400 x 1 1/8	CP09A1EB154K	CP09A1KB154K	.463 x 15/16
	200	CP08A1EC154K	CP08A1KC154K	.400 x 1 1/8	CP09A1EC154K	CP09A1KC154K	.463 x 15/16
	400	CP08A1EE154K	CP08A1KE154K	.562 x 1 1/8	CP09A1EE154K	CP09A1KE154K	.625 x 1 1/8
	600	CP08A1EF154K	CP08A1KF154K	.562 x 1 1/8	CP09A1EF154K	CP09A1KF154K	.625 x 1 1/8
.22	100	CP08A1EB224K	CP08A1KB224K	.400 x 1 1/8	CP09A1EB224K	CP09A1KB224K	.463 x 15/16
	200	CP08A1EC224K	CP08A1KC224K	.562 x 1 1/8	CP09A1EC224K	CP09A1KC224K	.625 x 1 1/8
	400	CP08A1EE224K	CP08A1KE224K	.562 x 1 1/8	CP09A1EE224K	CP09A1KE224K	.625 x 1 1/8
	600	CP08A1EF224K	CP08A1KF224K	.670 x 1 1/8	CP09A1EF224K	CP09A1KF224K	.733 x 1 1/8
.33	100	CP08A1EB334K	CP08A1KB334K	.562 x 1 1/8	CP09A1EB334K	CP09A1KB334K	.625 x 1 1/8
	200	CP08A1EC334K	CP08A1KC334K	.562 x 1 1/8	CP09A1EC334K	CP09A1KC334K	.625 x 1 1/8
	400	CP08A1EE334K	CP08A1KE334K	.670 x 1 1/8	CP09A1EE334K	CP09A1KE334K	.733 x 1 1/8
	600	CP08A1EF334K	CP08A1KF334K	.750 x 2 1/8	CP09A1EF334K	CP09A1KF334K	.813 x 2 1/8
.47	100	CP08A1EB474K	CP08A1KB474K	.562 x 1 1/8	CP09A1EB474K	CP09A1KB474K	.625 x 1 1/8
	200	CP08A1EC474K	CP08A1KC474K	.562 x 1 1/8	CP09A1EC474K	CP09A1KC474K	.625 x 1 1/8
	400	CP08A1EE474K	CP08A1KE474K	.750 x 2 1/8	CP09A1EE474K	CP09A1KE474K	.813 x 2 1/8
	600	CP08A1EF474K	CP08A1KF474K	.750 x 2 1/8	CP09A1EF474K	CP09A1KF474K	.813 x 2 1/8
.68	100	CP08A1EB684K	CP08A1KB684K	.562 x 1 1/8	CP09A1EB684K	CP09A1KB684K	.625 x 1 1/8
	200	CP08A1EC684K	CP08A1KC684K	.670 x 1 1/8	CP09A1EC684K	CP09A1KC684K	.733 x 1 1/8
1.0	100	CP08A1EB105K	CP08A1KB105K	.670 x 1 1/8	CP09A1EB105K	CP09A1KB105K	.733 x 1 1/8
	200	CP08A1EC105K	CP08A1KC105K	.750 x 2 1/8	CP09A1EC105K	CP09A1KC105K	.813 x 2 1/8

SPRAGUE CAPACITORS

MIL-C-25A CAPACITORS — TYPES CP26 and CP28



- Impregnated with specially processed mineral oil to exceed performance requirements of Spec. MIL-C-25A
- Type CP26 has outer insulating sleeve—Type CP28 has insulating sleeve plus radial mounting bracket
- Hermetically sealed for protection against leakage and contamination
- Meet temperature characteristic E (-55°C to $+85^{\circ}\text{C}$ operation)
- Capacitor sections are insulated from metal cases

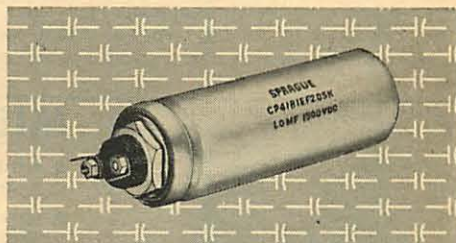
NOTE: Capacitors listed below have a capacitance tolerance of $\pm 10\%$. For $\pm 20\%$ units, change last letter in catalog number from K to M.

TYPE CP26 (without Mounting Bracket)				TYPE CP28 (Radial Mounting Bracket)			
μF	Volts	Diam. x Length	Cat. No.	μF	Volts	Diam. x Length	Cat. No.
.006	600	$\frac{1}{2} \times 1\frac{5}{16}$	CP26A1EF602K	.1	600	$1\frac{1}{16} \times 2\frac{1}{16}$	CP28A1EF104K
.01	600	$\frac{1}{2} \times 1\frac{5}{16}$	CP26A1EF103K	.25	600	$1\frac{1}{16} \times 2\frac{1}{16}$	CP28A1EF254K
.02	600	$\frac{1}{2} \times 1\frac{5}{16}$	CP26A1EF203K	.5	600	$1\frac{1}{16} \times 2\frac{1}{16}$	CP28A1EF504K
.05	600	$1\frac{1}{16} \times 1\frac{1}{16}$	CP26A1EF503K				
.5	200	$1\frac{1}{16} \times 2\frac{1}{16}$	CP26A1EC504K				

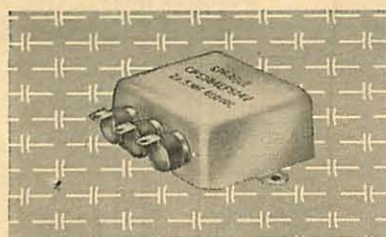
MIL-C-25A CAPACITORS — TYPES CP40 and CP41

- Designed and manufactured for service life and performance characteristics exceeding MIL requirements
- Type CP40 has screw and nut connection on positive terminal, can is negative—Type CP41 has two solder lug terminals, with capacitor section insulated from metal case
- Impregnated with specially processed mineral oil for characteristic E operation—Will withstand wide temperature variations (-55°C to $+85^{\circ}\text{C}$)
- Hermetically sealed in metal cases, with threaded screw necks for mounting purposes

NOTE: Capacitors listed below have a capacitance tolerance of $\pm 10\%$. For $\pm 20\%$ units, change last letter in catalog number from K to M.



TYPE CP40 (One Terminal)				TYPE CP41 (Two Terminals)			
μF	Volts	Diam. x Length	Cat. No.	μF	Volts	Diam. x Length	Cat. No.
2.0	600	$1\frac{1}{2} \times 3\frac{3}{8}$	CP40C2EF205K	2.0	600	$1\frac{1}{2} \times 3\frac{3}{8}$	CP41B1EF205K
4.0	600	$1\frac{1}{2} \times 5\frac{1}{4}$	CP40C2EF405K	4.0	600	$1\frac{1}{2} \times 5\frac{1}{4}$	CP41B1EF405K



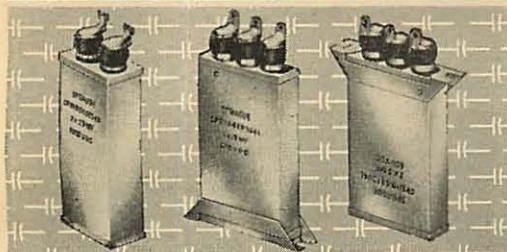
MIL-C-25A CAPACITORS—TYPE CP53

- Impregnated with specially processed mineral oil to exceed performance requirements of MIL-C-25A
- Hermetically sealed, with silicone rubber compression terminals
- -55°C to $+85^{\circ}\text{C}$ operation
- Drawn metal cases have mounting flanges as integral part of containers
- Single and dual capacitance units have insulated sections—triple capacitance units have grounded cases

NOTE: Capacitors listed below have capacitance tolerances of $+20\%$, -10% (V) or $\pm 10\%$ (K). For $\pm 20\%$ units, change last letter in catalog number from K to M or V to M.

μF	Volts	L. x W. x H.	Cat. No.	μF	Volts	L. x W. x H.	Cat. No.
Single Capacitance				Dual Capacitance			
.05	600	$1\frac{1}{16} \times 1 \times \frac{3}{4}$	CP53B1EF503K	.05 + .05	600	$1\frac{1}{16} \times 1 \times \frac{3}{4}$	CP53B4EF503V
.05	1000	$1\frac{1}{16} \times 1 \times \frac{3}{4}$	CP53B1EG503K	.05 + .05	1000	$1\frac{1}{16} \times 1 \times \frac{3}{4}$	CP53B4EG503V
.1	600	$1\frac{1}{16} \times 1 \times \frac{3}{4}$	CP53B1EF104K	.1 + .1	600	$1\frac{1}{16} \times 1 \times \frac{3}{4}$	CP53B4EF104V
.1	1000	$1\frac{1}{16} \times 1 \times \frac{3}{4}$	CP53B1EG104K	.1 + .1	1000	$1\frac{1}{16} \times 1 \times \frac{3}{8}$	CP53B4EG104V
.25	600	$1\frac{1}{16} \times 1 \times \frac{3}{4}$	CP53B1EF254K	.25 + .25	600	$1\frac{1}{16} \times 1 \times 1$	CP53B4EF254V
.25	1000	$1\frac{1}{16} \times 1 \times \frac{7}{8}$	CP53B1EG254K	.25 + .25	1000	$2 \times 1\frac{3}{4} \times \frac{7}{8}$	CP53B4EG254V
.5	400	$1\frac{1}{16} \times 1 \times \frac{7}{8}$	CP53B1EE504K	.5 + .5	600	$2 \times 1\frac{3}{4} \times 1$	CP53B4EF504V
.5	600	$1\frac{1}{16} \times 1 \times 1$	CP53B1EF504K	.5 + .5	1000	$2 \times 2 \times 1\frac{1}{8}$	CP53B4EG504V
.5	1000	$2 \times 1\frac{3}{4} \times \frac{7}{8}$	CP53B1EG504K	1.0 + 1.0	600	$2 \times 2 \times 1\frac{1}{8}$	CP53B4EF105V
1.0	600	$2 \times 1\frac{3}{4} \times 1$	CP53B1EF105K	Triple Capacitance			
1.0	1000	$2 \times 2 \times 1\frac{1}{8}$	CP53B1EG105K	.05 + .05 + .05	600	$1\frac{1}{16} \times 1 \times \frac{3}{4}$	CP53B5EF503V
2.0	100	$2 \times 1\frac{3}{4} \times \frac{7}{8}$	CP53B1EB205K	.1 + .1 + .1	600	$1\frac{1}{16} \times 1 \times \frac{7}{8}$	CP53B5EF104V
2.0	200	$2 \times 2 \times 1$	CP53B1EC205K	.5 + .5 + .5	600	$2 \times 2 \times 1\frac{1}{8}$	CP53B5EF504V
2.0	600	$2 \times 2 \times 1\frac{1}{8}$	CP53B1EF205K				
4.0	100	$2 \times 2 \times 1\frac{1}{8}$	CP53B1EB405K				

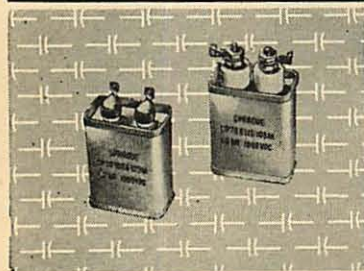
SPRAGUE CAPACITORS



CP61, CP67, CP69, CP91 MIL-C-25A CAPACITORS

- Mineral Oil Impregnated for Minimum Capacitance Change with Temperature
- Hermetically Sealed in Drawn Metal Cases
- Have Silicone Rubber Compression Terminals for Positive Prevention Against Entrance of Moisture or Leakage of Impregnant
- Designed and Manufactured for Service Life Beyond Specification Requirements
- Units Listed are Most Popular Ratings. Complete Military Line Available from Sprague
- CP61 and CP91 require separate mounting brackets. CP67 and CP69 have integral channel brackets

NOTE: These units have capacitance tolerances of $\pm 10\%$ (K) or $+20, -10\%$ (V). For $\pm 20\%$ units, change the last letter in the catalog number from K to M or V to M.



MIL-C-25A CAPACITORS—TYPE CP70

- Ruggedly Constructed for Exacting Heavy-Duty Applications
- Long Life and Reliable Service under High Ambient Temperatures
- Terminals have Ceramic Pillar Insulators (E) or Rubber Compression Seals (B)
- Impregnated with a Specially Processed Mineral Oil to Withstand Severe Operating Conditions
- Char. F Units Recommended primarily for ground equipment where no low temperatures are encountered
- Units Listed are Most Popular Ratings. Complete Military Line Available from Sprague

NOTE: These units have a capacitance tolerance of $\pm 10\%$. For $\pm 20\%$ tolerance, change the last letter in the catalog number from K to M.

CAP. μ F	Volts DC	Char. E (E Term.)				Char. F (B Term.)				Char. E (B Term.)			
		Cat. No.	W	T	H	Cat. No.	W	T	H	Cat. No.	W	T	H
.1	1000	CP70E1EG104K	1 1/4	1 1/4	1 1/4	—	—	—	—	—	—	—	—
.1	2000	CP70E1EJ104K	2 1/2	1 1/4	2 1/2	—	—	—	—	—	—	—	—
.25	1000	CP70E1EG254K	1 1/4	1 1/4	2 1/4	—	—	—	—	—	—	—	—
.25	2000	CP70E1EJ254K	2 1/2	1 1/4	2 1/2	—	—	—	—	—	—	—	—
.5	600	CP70E1EF504K	1 1/4	1 1/4	2 1/4	—	—	—	—	—	—	—	—
.5	1000	CP70E1EG504K	1 1/4	1 1/4	2 1/4	—	—	—	—	CP70B1EG504K	1 1/4	1 1/4	2 1/4
.5	1500	CP70E1EH504K	1 1/4	1 1/4	2 1/4	—	—	—	—	—	—	—	—
.5	2000	CP70E1EJ504K	2 1/2	1 1/4	2 1/4	—	—	—	—	—	—	—	—
.5	2500	CP70E1EK504K	2 1/2	1 1/4	3 1/4	—	—	—	—	—	—	—	—
1.0	600	CP70E1EF105K	1 1/4	1 1/4	2 1/4	—	—	—	—	CP70B1EF105K	1 1/4	1 1/4	2 1/4
1.0	1000	CP70E1EG105K	1 1/4	1 1/4	2 1/4	—	—	—	—	CP70B1EG105K	1 1/4	1 1/4	2 1/4
1.0	1500	CP70E1EH105K	1 1/4	1 1/4	4 3/4	—	—	—	—	—	—	—	—
1.0	2000	CP70E1EJ105K	2 1/2	1 1/4	4 3/4	—	—	—	—	—	—	—	—
1.0	2500	CP70E1EK105K	3 3/4	1 1/4	3 3/4	—	—	—	—	—	—	—	—
2.0	600	CP70E1EF205K	1 1/4	1 1/4	3 1/4	CP70B1FF205K	1 1/4	1 1/4	2 1/4	CP70B1EF205K	1 1/4	1 1/4	3 1/4
2.0	1000	CP70E1EG205K	1 1/4	1 1/4	4 3/4	CP70B1FG205K	1 1/4	1 1/4	3 1/4	CP70B1EG205K	1 1/4	1 1/4	4 3/4
2.0	1500	CP70E1EH205K	2 1/2	1 1/4	4 3/4	—	—	—	—	CP70B1EH205K	2 1/2	1 1/4	4 3/4
2.0	2000	CP70E1EJ205K	3 3/4	1 1/4	4 3/4	—	—	—	—	—	—	—	—
2.0	2500	CP70E1EK205K	3 3/4	1 1/4	4 3/4	—	—	—	—	—	—	—	—
4.0	600	CP70E1EF405K	2 1/2	1 1/4	3 3/4	CP70B1FF405K	2 1/2	1 1/4	3 3/4	CP70B1EF405K	2 1/2	1 1/4	3 3/4
4.0	1000	CP70E1EG405K	3 3/4	1 1/4	3 3/4	CP70B1FG405K	2 1/2	1 1/4	4 3/4	CP70B1EG405K	3 3/4	1 1/4	3 3/4
4.0	1500	CP70E1EH405K	3 3/4	1 1/4	4 1/4	—	—	—	—	CP70B1EH405K	3 3/4	1 1/4	4 1/4
4.0	2000	CP70E1EJ405K	3 3/4	2 1/4	5 1/4	—	—	—	—	—	—	—	—
4.0	2500	CP70E1EK405K	4 1/4	2 1/4	4 3/4	—	—	—	—	—	—	—	—
6.0	600	CP70E1EF605K	3 3/4	1 1/4	3 3/4	CP70B1FF605K	2 1/2	1 1/4	4 3/4	CP70B1EF605K	3 3/4	1 1/4	3 3/4
6.0	1000	CP70E1EG605K	3 3/4	1 1/4	4	CP70B1FG605K	3 3/4	1 1/4	4 3/4	CP70B1EG605K	3 3/4	1 1/4	4
6.0	1500	CP70E1EH605K	3 3/4	2 1/4	4 3/4	—	—	—	—	CP70B1EH605K	3 3/4	2 1/4	4 3/4
6.0	2000	CP70E1EJ605K	3 3/4	1 1/4	4 1/4	—	—	—	—	CP70B1EJ605K	3 3/4	1 1/4	4 1/4
6.0	2500	CP70E1EK605K	3 3/4	1 1/4	4 3/4	—	—	—	—	CP70B1EK605K	3 3/4	1 1/4	4 3/4
8.0	600	CP70E1EF805K	3 3/4	1 1/4	4 1/4	CP70B1FF805K	3 3/4	1 1/4	3 3/4	CP70B1EF805K	3 3/4	1 1/4	4 1/4
8.0	1000	CP70E1EG805K	3 3/4	1 1/4	4 3/4	CP70B1FG805K	3 3/4	1 1/4	3 3/4	CP70B1EG805K	3 3/4	1 1/4	4 3/4
8.0	1500	CP70E1EH805K	3 3/4	2 1/4	5 1/4	—	—	—	—	CP70B1EH805K	3 3/4	2 1/4	5 1/4
10.0	600	CP70E1EF106K	3 3/4	1 1/4	4	CP70B1FF106K	3 3/4	1 1/4	4 3/4	CP70B1EF106K	3 3/4	1 1/4	4
10.0	1000	CP70E1EG106K	3 3/4	2 1/4	4 3/4	CP70B1FG106K	3 3/4	1 1/4	4 3/4	CP70B1EG106K	3 3/4	2 1/4	4 3/4
10.0	1500	CP70E1EH106K	3 3/4	3 3/4	5 1/2	—	—	—	—	CP70B1EH106K	3 3/4	3 3/4	5 1/2
12.0	1000	CP70E1EG126K	3 3/4	2 1/4	5 1/4	—	—	—	—	CP70B1EG126K	3 3/4	2 1/4	5 1/4
15.0	1000	CP70E1EG156K	3 3/4	3 3/4	4 3/4	—	—	—	—	—	—	—	—

TYPE CP 61

CAP. μ F	VOLTS DC	CAT. NO.	SIZE	Mounting Brackets* CAT. NO.
.05	600	CP61B1EF503K	1 1/4 x 1 1/4 x 1 1/4	CP06-FA1
.1	600	CP61B1EF104K	1 3/4 x 1 1/4 x 1 3/8	CP06-FA2
.25	600	CP61B1EF254K	1 3/4 x 1 1/4 x 1 3/8	CP06-FA3
1.0	600	CP61B1EF504K	1 3/4 x 1 1/4 x 2 1/2	CP06-FA5
.1 + .1	600	CP61B6EF104V	1 3/4 x 1 1/4 x 1 3/8	CP06-FA3
.25 + .25	600	CP61B6EF254V	1 3/4 x 1 1/4 x 2	CP06-FA4
.5 + .5	600	CP61B6EF504V	1 3/4 x 1 1/4 x 2 3/4	CP06-FA6

TYPE CP 91

CAP. μ F	VOLTS DC	CAT. NO.	SIZE	Mounting Brackets* CAT. NO.
.05	600	CP91B1EF503K	1 3/4 x 5/8 x 1 1/4	CP091-FB1
.1	600	CP91B1EF104K	1 3/4 x 5/8 x 1 3/8	CP091-FB2
.25	600	CP91B1EF254K	1 3/4 x 5/8 x 1 3/8	CP091-FB3
.5	600	CP91B1EF504K	1 3/4 x 5/8 x 2	CP091-FB4
1.0	600	CP91B1EF105K	1 3/4 x 5/8 x 2 3/4	CP091-FB6
.1 + .1	600	CP91B6EF104V	1 3/4 x 5/8 x 1 3/8	CP091-FB3
.25 + .25	600	CP91B6EF254V	1 3/4 x 5/8 x 2	CP091-FB4
.5 + .5	600	CP91B6EF504V	1 3/4 x 5/8 x 2 3/4	CP091-FB6

TYPE CP 67 Terminals opposite channel bracket

CAP. μ F	VOLTS DC	CAT. NO.	SIZE	Integral Channel Brackets
.1	600	CP67B1EF104K	1 3/4 x 4 1/4 x 1 1/4	—
.25	600	CP67B1EF254K	1 3/4 x 4 1/4 x 1 1/2	—
.5	600	CP67B1EF504K	1 3/4 x 4 1/4 x 2	—
1.0	600	CP67B1EF105K	1 3/4 x 4 1/4 x 2 3/4	—

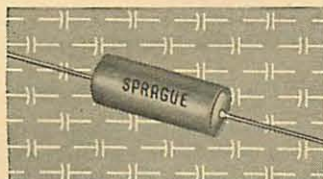
TYPE CP 69 Terminals on same end as channel bracket

CAP. μ F	VOLTS DC	CAT. NO.	SIZE	Integral Channel Brackets
.05	600	CP69B1EF503K	1 3/4 x 4 1/4 x 1 1/4	—
.1	600	CP69B1EF104K	1 3/4 x 4 1/4 x 1 1/4	—
.25	600	CP69B1EF254K	1 3/4 x 4 1/4 x 1 1/2	—
.5	600	CP69B1EF504K	1 3/4 x 4 1/4 x 2	—
1.0	600	CP69B1EF105K	1 3/4 x 4 1/4 x 2 3/4	—

*Footed Brackets are listed; for spade type change F in catalog No. to S

SPRAGUE CAPACITORS

118P DIFILM[®] METALLIZED CAPACITORS



- The best of their type which it is possible to produce in the present state of the art
- Rated for operation at 125°C WITHOUT VOLTAGE DERATING
- Capacitor sections are effectively of non-inductive construction, resulting in capacitors unmatched in performance quality by any other metallized capacitors
- Hermetically sealed, with glass-to-metal solder-seal terminals
- Have unusual self-healing characteristics, in the rare event of capacitor dielectric breakdown
- May be used at extremely low voltages where metallized paper construction has previously been unsatisfactory
- For complete performance characteristics, see Engineering Bulletin 2211A
- Unique dual dielectric—a combination of metallized paper and of polyester film, impregnated with special high-temperature mineral wax
- Subjected to stringent quality control during manufacture
- Higher insulation resistance than any other metallized paper capacitors—at 125°C, minimum product of insulation resistance and capacitance is 10 megohm-microfarads for 200 V units or 40 megohm-microfarads for 400 and 600 V units
- Capacitors listed below are ungrounded case (insulated section) units without outer insulating sleeves. For information on other styles consult your Sprague Industrial Distributor

μF	Diam. x Length	Catalog Number	
		±20% Tol.	±10% Tol.
200 WVDC			
.01	.235 x 3/4	118P10302S2	118P10392S2
.012	.235 x 3/4		118P12392S2
.015	.235 x 3/4	118P15302S2	118P15392S2
.018	.235 x 3/4		118P18392S2
.022	.235 x 3/4	118P22302S2	118P22392S2
.027	.235 x 3/4		118P27392S2
.033	.235 x 3/4	118P33302S2	118P33392S2
.039	.312 x 7/8		118P39392S2
.047	.312 x 7/8	118P47302S2	118P47392S2
.056	.312 x 7/8		118P56392S2
.068	.312 x 7/8	118P68302S2	118P68392S2
.082	.312 x 7/8		118P82392S2
.1	.312 x 7/8	118P10402S2	118P10492S2
.12	.312 x 1 1/8		118P12492S2
.15	.312 x 1 1/8	118P15402S2	118P15492S2
.18	.400 x 7/8		118P18492S2
.22	.400 x 7/8	118P22402S2	118P22492S2
.27	.400 x 1 1/8		118P27492S2
.33	.400 x 1 1/8	118P33402S2	118P33492S2
.39	.500 x 1 1/8		118P39492S2
.47	.500 x 1 1/8	118P47402S2	118P47492S2
.56	.500 x 1 1/8		118P56492S2
.68	.500 x 1 1/8	118P68402S2	118P68492S2
.82	.562 x 1 1/8		118P82492S2
1.0	.562 x 1 1/8	118P10502S2	118P10592S2
1.5	.562 x 1 5/8	118P15502S2	118P15592S2
2.0	.670 x 1 5/8	118P20502S2	118P20592S2
3.0	.670 x 1 7/8	118P30502S2	118P30592S2
4.0	.750 x 1 7/8	118P40502S2	118P40592S2
5.0	1.000 x 1 7/8	118P50502S2	118P50592S2
6.0	1.000 x 1 7/8	118P60502S2	118P60592S2
8.0	1.000 x 1 7/8	118P80502S2	118P80592S2
10.0	1.000 x 2 3/8	118P10602S2	118P10692S2
12.0	1.000 x 2 5/8	118P12602S2	118P12692S2
400 WVDC			
.01	.312 x 7/8	118P10304S2	118P10394S2
.012	.312 x 7/8		118P12394S2
.015	.312 x 7/8	118P15304S2	118P15394S2
.018	.312 x 7/8		118P18394S2
.022	.312 x 7/8	118P22304S2	118P22394S2
.027	.312 x 1 1/8		118P27394S2
.033	.312 x 1 1/8	118P33304S2	118P33394S2
.039	.400 x 1 1/8		118P39394S2
.047	.400 x 1 1/8	118P47304S2	118P47394S2
.056	.400 x 1 1/8		118P56394S2

μF	Diam. x Length	Catalog Number	
		±20% Tol.	±10% Tol.
.068	.400 x 1 1/8	118P68304S2	118P68394S2
.082	.500 x 1 1/8		118P82394S2
.1	.500 x 1 1/8	118P10404S2	118P10494S2
.12	.500 x 1 1/8		118P12494S2
.15	.500 x 1 1/8	118P15404S2	118P15494S2
.18	.562 x 1 1/8		118P18494S2
.22	.562 x 1 1/8	118P22404S2	118P22494S2
.27	.562 x 1 1/8		118P27494S2
.33	.562 x 1 1/8	118P33404S2	118P33494S2
.39	.670 x 1 1/8		118P39494S2
.47	.670 x 1 1/8	118P47404S2	118P47494S2
.56	.670 x 1 1/8		118P56494S2
.68	.670 x 1 1/8	118P68404S2	118P68494S2
.82	.750 x 1 1/8		118P82494S2
1.0	.750 x 1 1/8	118P10504S2	118P10594S2
1.5	1.000 x 1 1/8	118P15504S2	118P15594S2
2.0	1.000 x 1 1/8	118P20504S2	118P20594S2
3.0	1.000 x 2 5/8	118P30504S2	118P30594S2
600 WVDC			
.01	.312 x 7/8	118P10306S2	118P10396S2
.012	.312 x 7/8		118P12396S2
.015	.312 x 7/8	118P15306S2	118P15396S2
.018	.312 x 1 1/8		118P18396S2
.022	.312 x 1 1/8	118P22306S2	118P22396S2
.027	.312 x 1 1/8		118P27396S2
.033	.312 x 1 1/8	118P33306S2	118P33396S2
.039	.400 x 1 1/8		118P39396S2
.047	.400 x 1 1/8	118P47306S2	118P47396S2
.056	.400 x 1 1/8		118P56396S2
.068	.400 x 1 1/8	118P68306S2	118P68396S2
.082	.500 x 1 1/8		118P82396S2
.1	.500 x 1 1/8	118P10406S2	118P10496S2
.12	.562 x 1 1/8		118P12496S2
.15	.562 x 1 1/8	118P15406S2	118P15496S2
.18	.562 x 1 3/8		118P18496S2
.22	.562 x 1 3/8	118P22406S2	118P22496S2
.27	.562 x 1 3/8		118P27496S2
.33	.562 x 1 3/8	118P33406S2	118P33496S2
.39	.670 x 1 3/8		118P39496S2
.47	.670 x 1 3/8	118P47406S2	118P47496S2
.56	.670 x 1 3/8		118P56496S2
.68	.670 x 1 3/8	118P68406S2	118P68496S2
.82	1.000 x 1 3/8		118P82496S2
1.0	1.000 x 1 3/8	118P10506S2	118P10596S2
1.5	1.000 x 1 3/8	118P15506S2	118P15596S2
2.0	1.000 x 2 1/8	118P20506S2	118P20596S2
2.5	1.000 x 2 5/8	118P25506S2	118P25596S2

SPRAGUE CAPACITORS

121P METALLIZED PAPER CAPACITORS

- Designed to operate at 125°C WITHOUT VOLTAGE DERATING—extremely important in military and industrial equipment where higher temperatures are encountered
- Quality of these capacitors is surpassed only by Type 118P units described on opposite page
- High insulation resistance—at 85°C, minimum product of insulation resistance and capacitance is 20 megohm-microfarads. At 125°C, minimum product is 1.0 megohm-microfarads

- Hermetically sealed with glass-to-metal solder-seal terminals—capacitor cases are of corrosion resistant materials—similar in appearance to Type 118P
- May be operated at low voltages, unlike many other metallized capacitors
- For complete performance data, see Engineering Bulletin 2210
- Capacitors listed below are ungrounded case (insulated section) units without outer insulating sleeves. For information on other styles consult your Sprague Industrial Distributor

μF	Diam. x Length	Catalog Number	
		±20% Tol.	±10% Tol.
150 WVDC			
1.5	.562 x 1 1/8	121P15501R5S2	121P15591R5S2
2.0	.562 x 1 3/8	121P20501R5S2	121P20591R5S2
2.5	.562 x 1 5/8	121P25501R5S2	121P25591R5S2
3.0	.670 x 1 3/8	121P30501R5S2	121P30591R5S2
3.5	.670 x 1 5/8	121P35501R5S2	121P35591R5S2
4.0	.670 x 1 7/8	121P40501R5S2	121P40591R5S2
5.0	.670 x 1 7/8	121P50501R5S2	121P50591R5S2
6.0	.750 x 1 7/8	121P60501R5S2	121P60591R5S2
8.0	.750 x 2 3/8	121P80501R5S2	121P80591R5S2
10	.750 x 2 3/8	121P10601R5S2	121P10691R5S2
12	1.000 x 1 7/8	121P12601R5S2	121P12691R5S2
14	1.000 x 2 1/8	121P14601R5S2	121P14691R5S2
16	1.000 x 2 3/8	121P16601R5S2	121P16691R5S2
18	1.000 x 2 3/8	121P18601R5S2	121P18691R5S2

μF	Diam. x Length	Catalog Number	
		±20% Tol.	±10% Tol.
200 WVDC			
.047	.235 x 3/4	121P47302S2	121P47392S2
.056	.312 x 7/8		121P56392S2
.068	.312 x 7/8	121P68302S2	121P68392S2
.082	.312 x 7/8		121P82392S2
.1	.312 x 7/8	121P10402S2	121P10492S2
.12	.312 x 7/8		121P12492S2
.15	.312 x 7/8	121P15402S2	121P15492S2
.18	.312 x 1 1/8		121P18492S2
.22	.312 x 1 1/8	121P22402S2	121P22492S2
.27	.400 x 1 1/8		121P27492S2
.33	.400 x 1 1/8	121P33402S2	121P33492S2
.39	.400 x 1 1/8		121P39492S2
.47	.400 x 1 1/8	121P47402S2	121P47492S2
.56	.500 x 1 1/8		121P56492S2
.68	.500 x 1 1/8	121P68402S2	121P68492S2
.82	.562 x 1 1/8		121P82492S2
1.0	.562 x 1 1/8	121P10502S2	121P10592S2
1.5	.562 x 1 3/8	121P15502S2	121P15592S2
2.0	.562 x 1 5/8	121P20502S2	121P20592S2
2.5	.670 x 1 5/8	121P25502S2	121P25592S2
3.0	.670 x 1 7/8	121P30502S2	121P30592S2
3.5	.750 x 1 7/8	121P35502S2	121P35592S2
4.0	.750 x 1 7/8	121P40502S2	121P40592S2
5.0	.750 x 2 1/8	121P50502S2	121P50592S2
6.0	.750 x 2 3/8	121P60502S2	121P60592S2
8.0	1.000 x 1 7/8	121P80502S2	121P80592S2
10	1.000 x 2 1/8	121P10602S2	121P10692S2
12	1.000 x 2 3/8	121P12602S2	121P12692S2

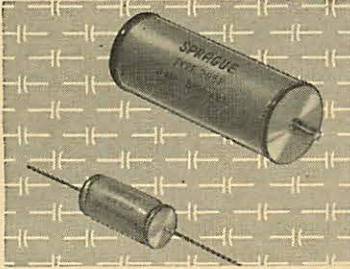
μF	Diam. x Length	Catalog Number	
		±20% Tol.	±10% Tol.
400 WVDC			
.01	.235 x 3/4	121P10304S2	121P10394S2
.012	.312 x 7/8		121P12394S2
.015	.312 x 7/8	121P15304S2	121P15394S2
.018	.312 x 7/8		121P18394S2
.022	.312 x 7/8	121P22304S2	121P22394S2
.027	.312 x 7/8		121P27394S2
.033	.312 x 7/8	121P33304S2	121P33394S2
.039	.312 x 1 1/8		121P39394S2
.047	.312 x 1 1/8	121P47304S2	121P47394S2
.056	.312 x 1 1/8		121P56394S2
.068	.312 x 1 1/8	121P68304S2	121P68394S2
.082	.400 x 1 1/8		121P82394S2

μF	Diam. x Length	Catalog Number	
		±20% Tol.	±10% Tol.
.1	.400 x 1 1/8	121P10404S2	121P10494S2
.12	.400 x 1 3/8		121P12494S2
.15	.400 x 1 3/8	121P15404S2	121P15494S2
.18	.500 x 1 1/8		121P18494S2
.22	.500 x 1 1/8	121P22404S2	121P22494S2
.27	.562 x 1 3/8		121P27494S2
.33	.562 x 1 3/8	121P33404S2	121P33494S2
.39	.562 x 1 5/8		121P39494S2
.47	.562 x 1 5/8	121P47404S2	121P47494S2
.56	.670 x 1 5/8		121P56494S2
.68	.670 x 1 5/8	121P68404S2	121P68494S2
.82	.670 x 1 7/8		121P82494S2
1.0	.670 x 1 7/8	121P10504S2	121P10594S2
1.5	.750 x 2 3/8	121P15504S2	121P15594S2
2.0	1.000 x 1 7/8	121P20504S2	121P20594S2
2.5	1.000 x 2 1/8	121P25504S2	121P25594S2
3.0	1.000 x 2 3/8	121P30504S2	121P30594S2
3.5	1.000 x 2 3/8	121P35504S2	121P35594S2

μF	Diam. x Length	Catalog Number	
		±20% Tol.	±10% Tol.
600 WVDC			
.001	.235 x 3/4	121P10206S2	121P10296S2
.0012	.235 x 3/4		121P12296S2
.0015	.235 x 3/4	121P15206S2	121P15296S2
.0018	.235 x 3/4		121P18296S2
.0022	.235 x 3/4	121P22206S2	121P22296S2
.0027	.235 x 3/4		121P27296S2
.0033	.235 x 3/4	121P33206S2	121P33296S2
.0039	.235 x 3/4		121P39296S2
.0047	.235 x 3/4	121P47206S2	121P47296S2
.0056	.312 x 7/8		121P56296S2
.0068	.312 x 7/8	121P68206S2	121P68296S2
.0082	.312 x 7/8		121P82296S2
.01	.312 x 7/8	121P10306S2	121P10396S2
.012	.312 x 7/8		121P12396S2
.015	.312 x 7/8	121P15306S2	121P15396S2
.018	.312 x 1 1/8		121P18396S2
.022	.312 x 1 1/8	121P22306S2	121P22396S2
.027	.312 x 1 1/8		121P27396S2
.033	.312 x 1 1/8	121P33306S2	121P33396S2
.039	.400 x 1 1/8		121P39396S2
.047	.400 x 1 1/8	121P47306S2	121P47396S2
.056	.400 x 1 1/8		121P56396S2
.068	.400 x 1 1/8	121P68306S2	121P68396S2
.082	.500 x 1 1/8		121P82396S2
.1	.500 x 1 1/8	121P10406S2	121P10496S2
.12	.562 x 1 1/8		121P12496S2
.15	.562 x 1 1/8	121P15406S2	121P15496S2
.18	.562 x 1 3/8		121P18496S2
.22	.562 x 1 3/8	121P22406S2	121P22496S2
.27	.562 x 1 5/8		121P27496S2
.33	.562 x 1 5/8	121P33406S2	121P33496S2
.39	.670 x 1 5/8		121P39496S2
.47	.670 x 1 5/8	121P47406S2	121P47496S2
.56	.670 x 1 7/8		121P56496S2
.68	.670 x 1 7/8	121P68406S2	121P68496S2
.82	.750 x 2 3/8		121P82496S2
1.0	.750 x 2 3/8	121P10506S2	121P10596S2
1.5	1.000 x 2 1/8	121P15506S2	121P15596S2
2.0	1.000 x 2 3/8	121P20506S2	121P20596S2

SPRAGUE CAPACITORS

HIGH-VOLTAGE GLASS-ENCASED TUBULARS-TYPE 205P



- Made for low capacitance, high voltage operation at high altitudes
- Used in airborne equipment to solve corona problems; also in high voltage ground equipment such as transmitter power supplies, induction heating equipment, electrostatic precipitators, as well as coupling and bypass applications in industrial control devices.
- Dual dielectric combines the best features of both polyester film and paper
- Impregnated and filled with Vitamin Q, Sprague's exclusive inert synthetic
- Long leakage path between terminals
- Smaller in size and weight than metal cased tubulars of similar ratings
- Standard capacitance tolerance: $\pm 10\%$

85°C OPERATION

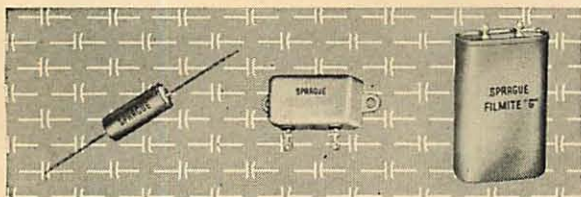
μF	Size	Catalog	Terminal
	D. x L.	Number	
2000 VOLTS D-C			
.002	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P30	No. 20 AWG
.005	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P31	No. 20 AWG
.01	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P32	No. 20 AWG
.02	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P33	No. 20 AWG
.05	3/4 x 1 ³ / ₄	205P34	No. 8-32 NC-2
.1	3/4 x 2 ¹ / ₄	205P35	No. 8-32 NC-2
.25	1 ¹ / ₃₂ x 2 ³ / ₄	205P36	No. 8-32 NC-2
.5	1 ¹ / ₃₂ x 2 ³ / ₄	205P37	No. 8-32 NC-2
3000 VOLTS D-C			
.001	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P50	No. 20 AWG
.002	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P51	No. 20 AWG
.005	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P52	No. 20 AWG
.01	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P53	No. 20 AWG
.02	5/8 x 2 ¹ / ₄	205P54	No. 8-32 NC-2
.05	3/4 x 2 ¹ / ₄	205P55	No. 8-32 NC-2
.1	1 ¹ / ₃₂ x 2 ¹ / ₄	205P56	No. 8-32 NC-2
.25	1 ¹ / ₃₂ x 2 ³ / ₄	205P57	No. 8-32 NC-2
4000 VOLTS D-C			
.001	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P70	No. 20 AWG
.002	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P71	No. 20 AWG
.005	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P72	No. 20 AWG
.01	5/8 x 1 ³ / ₁₆	205P73	No. 8-32 NC-2
.02	3/4 x 1 ³ / ₄	205P74	No. 8-32 NC-2
.05	7/8 x 2 ¹ / ₄	205P75	No. 8-32 NC-2
.1	1 ¹ / ₃₂ x 2 ³ / ₄	205P76	No. 8-32 NC-2
.25	1 ¹ / ₃₂ x 3 ¹ / ₂	205P77	No. 8-32 NC-2
5000 VOLTS D-C			
.001	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P90	No. 20 AWG
.002	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P91	No. 20 AWG
.005	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P92	No. 20 AWG
.01	5/8 x 1 ³ / ₁₆	205P93	No. 8-32 NC-2
.02	3/4 x 1 ³ / ₄	205P94	No. 8-32 NC-2
.05	7/8 x 2 ¹ / ₄	205P95	No. 8-32 NC-2
.1	1 ¹ / ₃₂ x 2 ³ / ₄	205P96	No. 8-32 NC-2
7500 VOLTS D-C			
.001	5/8 x 2 ¹ / ₄	205P110	No. 8-32 NC-2
.002	5/8 x 2 ¹ / ₄	205P111	No. 8-32 NC-2
.005	3/4 x 1 ³ / ₄	205P112	No. 8-32 NC-2
.01	3/4 x 2 ¹ / ₄	205P113	No. 8-32 NC-2
.02	1 ¹ / ₃₂ x 2 ³ / ₄	205P114	No. 8-32 NC-2
.05	1 ¹ / ₃₂ x 2 ³ / ₄	205P115	No. 8-32 NC-2
.1	1 ¹ / ₃₂ x 3 ¹ / ₂	205P116	No. 8-32 NC-2
10000 VOLTS D-C			
.0005	5/8 x 2 ¹ / ₄	205P130	No. 8-32 NC-2
.001	5/8 x 2 ¹ / ₄	205P131	No. 8-32 NC-2
.002	5/8 x 2 ¹ / ₄	205P132	No. 8-32 NC-2
.005	3/4 x 2 ¹ / ₄	205P133	No. 8-32 NC-2
.01	1 ¹ / ₃₂ x 2 ³ / ₄	205P134	No. 8-32 NC-2
.02	1 ¹ / ₃₂ x 2 ³ / ₄	205P135	No. 8-32 NC-2
.03	1 ¹ / ₃₂ x 2 ³ / ₄	205P136	No. 8-32 NC-2
.05	1 ¹ / ₃₂ x 4 ¹ / ₄	205P137	No. 8-32 NC-2

125°C OPERATION

μF	Size	Catalog	Terminal
	D. x L.	Number	
2000 VOLTS D-C			
.001	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P530	No. 20 AWG
.002	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P531	No. 20 AWG
.005	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P532	No. 20 AWG
.01	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P533	No. 20 AWG
.02	5/8 x 1 ³ / ₁₆	205P534	No. 8-32 NC-2
.05	3/4 x 2 ¹ / ₄	205P535	No. 8-32 NC-2
.1	1 ¹ / ₃₂ x 2 ¹ / ₄	205P536	No. 8-32 NC-2
.25	1 ¹ / ₃₂ x 3 ¹ / ₂	205P537	No. 8-32 NC-2
3000 VOLTS D-C			
.001	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P550	No. 20 AWG
.002	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P551	No. 20 AWG
.005	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P552	No. 20 AWG
.01	5/8 x 1 ³ / ₁₆	205P553	No. 8-32 NC-2
.02	3/4 x 1 ³ / ₄	205P554	No. 8-32 NC-2
.05	1 ¹ / ₃₂ x 2 ¹ / ₄	205P555	No. 8-32 NC-2
.1	1 ¹ / ₃₂ x 2 ³ / ₄	205P556	No. 8-32 NC-2
4000 VOLTS D-C			
.001	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P570	No. 20 AWG
.002	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P571	No. 20 AWG
.005	5/8 x 1 ³ / ₁₆	205P572	No. 8-32 NC-2
.01	3/4 x 1 ³ / ₄	205P573	No. 8-32 NC-2
.02	3/4 x 2 ¹ / ₄	205P574	No. 8-32 NC-2
.05	1 ¹ / ₃₂ x 2 ³ / ₄	205P575	No. 8-32 NC-2
.1	1 ¹ / ₃₂ x 2 ³ / ₄	205P576	No. 8-32 NC-2
5000 VOLTS D-C			
.001	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P590	No. 20 AWG
.002	1 ⁷ / ₃₂ x 1 ³ / ₁₆	205P591	No. 20 AWG
.005	5/8 x 1 ³ / ₁₆	205P592	No. 8-32 NC-2
.01	3/4 x 1 ³ / ₄	205P593	No. 8-32 NC-2
.02	7/8 x 2 ¹ / ₄	205P594	No. 8-32 NC-2
.05	1 ¹ / ₃₂ x 2 ³ / ₄	205P595	No. 8-32 NC-2
.1	1 ¹ / ₃₂ x 3 ¹ / ₂	205P596	No. 8-32 NC-2
7500 VOLTS D-C			
.001	5/8 x 2 ¹ / ₄	205P610	No. 8-32 NC-2
.002	3/4 x 1 ³ / ₄	205P611	No. 8-32 NC-2
.005	3/4 x 2 ¹ / ₄	205P612	No. 8-32 NC-2
.01	7/8 x 2 ¹ / ₄	205P613	No. 8-32 NC-2
.02	1 ¹ / ₃₂ x 2 ³ / ₄	205P614	No. 8-32 NC-2
.03	1 ¹ / ₃₂ x 2 ³ / ₄	205P615	No. 8-32 NC-2
.05	1 ¹ / ₃₂ x 4 ¹ / ₄	205P616	No. 8-32 NC-2
10000 VOLTS D-C			
.0001	5/8 x 2 ¹ / ₄	205P630	No. 8-32 NC-2
.0002	5/8 x 2 ¹ / ₄	205P631	No. 8-32 NC-2
.0005	5/8 x 2 ¹ / ₄	205P632	No. 8-32 NC-2
.001	3/4 x 2 ¹ / ₄	205P633	No. 8-32 NC-2
.002	7/8 x 2 ¹ / ₄	205P634	No. 8-32 NC-2
.005	1 ¹ / ₃₂ x 2 ³ / ₄	205P635	No. 8-32 NC-2
.01	1 ¹ / ₃₂ x 2 ³ / ₄	205P636	No. 8-32 NC-2
.02	1 ¹ / ₃₂ x 4 ¹ / ₄	205P637	No. 8-32 NC-2

SPRAGUE CAPACITORS

METAL-CLAD FILM CAPACITORS



Polystyrene film dielectric capacitors have the lowest dielectric absorption of all film capacitors. The exceptionally high insulation resistance will generally exceed 10,000,000 megohm-microfarads. They have extremely low power factor, close capacitance tolerance, high capacitance stability with temperature change and high operating temperatures. The unusual properties of these capacitors make them particularly suitable for circuit applications demanding such characteristics. All capacitors listed here are hermetically sealed in metal cases

114P STYRACON® TUBULARS

Specially processed polystyrene film dielectric ● Operating temperature range, -55°C to +85°C ● High insulation resistance ● Low dielectric absorption (under .05%) ● High capacitance stability (less than ±2% drift) ● Extremely low

power factor (high Q) ● Units listed below have capacitance tolerance of ±5%. For ±20%, change 8th digit in catalog number from 5 to 0; For ±10% change to 9; For ±2% change to 2; For ±1% change to 1 ● Units listed below have plastic insulating sleeves. For plain metal case, change last digit in catalog number from 4 to 2

200 WVDC			400 WVDC			600 WVDC		
μF	Diam. x Length	Cat. No.	μF	Diam. x Length	Cat. No.	μF	Diam. x Length	Cat. No.
.001	.235 x 7/8	114P10252S4	.001	.235 x 7/8	114P10254S4	.001	.400 x 7/8	114P10256S4
.0015	.235 x 7/8	114P15252S4	.0015	.312 x 7/8	114P15254S4	.0015	.400 x 1 1/8	114P15256S4
.0022	.235 x 7/8	114P22252S4	.0022	.312 x 7/8	114P22254S4	.0022	.400 x 1 1/8	114P22256S4
.0033	.312 x 7/8	114P33252S4	.0033	.312 x 7/8	114P33254S4	.0033	.400 x 1 1/8	114P33256S4
.0047	.312 x 7/8	114P47252S4	.0047	.400 x 7/8	114P47254S4	.0047	.400 x 1 1/8	114P47256S4
.0068	.400 x 7/8	114P68252S4	.0068	.400 x 1 1/8	114P68254S4	.0068	.400 x 1 1/8	114P68256S4
.01	.400 x 1 1/8	114P10352S4	.01	.400 x 1 1/8	114P10354S4	.01	.400 x 1 1/8	114P10356S4
.0015	.400 x 1 1/8	114P15352S4	.015	.400 x 1 1/8	114P15354S4	.015	.400 x 1 1/8	114P15356S4
.022	.400 x 1 1/8	114P22352S4	.022	.562 x 1 1/8	114P22354S4	.022	.562 x 1 1/8	114P22356S4
.033	.562 x 1 1/8	114P33352S4	.033	.562 x 1 1/8	114P33354S4	.033	.562 x 1 1/8	114P33356S4
.047	.562 x 1 1/8	114P47352S4	.047	.562 x 1 1/8	114P47354S4	.047	.670 x 1 1/8	114P47356S4
.068	.562 x 1 1/8	114P68352S4	.068	.670 x 1 1/8	114P68354S4	.068	.750 x 2 1/8	114P68356S4
.1	.670 x 1 1/8	114P10452S4	.1	.750 x 2 1/8	114P10454S4	.1	.750 x 2 1/8	114P10456S4
.15	.750 x 2 1/8	114P15452S4	.15	.750 x 2 1/8	114P15454S4	.15	1.000 x 2 1/8	114P15456S4
.22	.750 x 2 1/8	114P22452S4	.22	1.000 x 2 1/8	114P22454S4	.22	1.000 x 2 1/8	114P22456S4
.33	1.000 x 2 1/8	114P33452S4	.33	1.000 x 2 1/8	114P33454S4			
.47	1.000 x 2 1/8	114P47452S4	.47	1.000 x 2 1/8	114P47454S4			

111P STYRACON® BATHTUBS

Same electrical characteristics as Type 114P ● Drawn metal bathtub cases ● Listed units have capacitance tolerance of ±5%. For ±20%, change last letter in catalog number from J to M; For ±10% change to K; For ±2% change to G; For ±1% change to F

μF	WVDC	L. x W. x H.	Cat. No.	μF	WVDC	L. x W. x H.	Cat. No.
1.5	50	2 x 1 3/4 x 1	111P7J	2.0	200	2 1/8 x 2 1/8 x 2 1/8	111P16J
2.0	50	2 x 2 x 1 1/4	111P8J	.68	400	2 x 2 x 1 1/4	111P17J
3.0	50	2 x 2 x 1 1/2	111P9J	1.0	400	2 x 2 x 1 1/2	111P18J
5.0	50	2 1/4 x 2 1/4 x 2 1/8	111P10J	1.5	400	2 1/8 x 2 1/8 x 2 1/8	111P19J
1.0	100	2 x 1 3/4 x 7/8	111P11J	.33	600	2 x 1 3/4 x 1	111P20J
2.0	100	2 x 2 x 1 1/2	111P12J	.47	600	2 x 2 x 1 1/8	111P21J
3.0	100	2 1/4 x 2 1/4 x 2 1/8	111P13J	.68	600	2 x 2 x 1 1/2	111P22J
.68	200	2 x 1 3/4 x 1	111P14J				
1.0	200	2 x 2 x 1 1/4	111P15J	1.0	600	2 1/8 x 2 1/8 x 2 1/8	111P4J

139P FILMITE 'F' TUBULARS

For circuit applications requiring constant capacitance with varying operating temperatures ● Practically zero capacitance change at temperatures from -10°C to +85°C. May be operated at +125°C with not more than 2.5% capacitance change ● Operating temperature: -55°C to +125°C

● Insulation resistance and dielectric absorption characteristics approach those of polystyrene capacitors ● Listed units have capacitance tolerance of ±5%. For ±20%, change 8th digit in catalog number from 5 to 0; for ±10%, change to 9; for ±2%, change to 2 ● Write for Engineering Bulletin No. 2560 for complete details

200 WVDC			400 WVDC			600 WVDC		
μF	Diam. x Length	Cat. No.	μF	Diam. x Length	Cat. No.	μF	Diam. x Length	Cat. No.
.001	.235 x 3/4	139P10252S4	.001	.235 x 3/4	139P10254S4	.001	.235 x 3/4	139P10256S4
.0015	.235 x 3/4	139P15252S4	.0015	.235 x 3/4	139P15254S4	.0015	.312 x 7/8	139P15256S4
.0022	.235 x 3/4	139P22252S4	.0022	.312 x 7/8	139P22254S4	.0022	.312 x 7/8	139P22256S4
.0033	.312 x 7/8	139P33252S4	.0033	.312 x 7/8	139P33254S4	.0033	.312 x 7/8	139P33256S4
.0047	.312 x 7/8	139P47252S4	.0047	.312 x 7/8	139P47254S4	.0047	.312 x 1	139P47256S4
.0068	.312 x 7/8	139P68252S4	.0068	.312 x 1	139P68254S4	.0068	.400 x 1	139P68256S4
.01	.312 x 1	129P10352S4	.01	.400 x 7/8	139P10354S4	.01	.400 x 1 1/8	139P10356S4
.015	.400 x 7/8	139P15352S4	.015	.400 x 1	139P15354S4	.015	.400 x 1 1/8	139P15356S4
.022	.400 x 1	139P22352S4	.022	.400 x 1 1/4	139P22354S4	.022	.562 x 1 1/8	139P22356S4
.033	.400 x 1 1/4	139P33352S4	.033	.562 x 1 1/8	139P33354S4	.033	.562 x 1 1/8	139P33356S4
.047	.500 x 1 1/8	139P47352S4	.047	.562 x 1 1/4	139P47354S4	.047	.670 x 1 1/8	139P47356S4
.068	.562 x 1 1/8	139P68352S4	.068	.670 x 1 1/8	139P68354S4	.068	.750 x 2 1/8	139P68356S4
.1	.670 x 1 1/8	139P10452S4	.1	.750 x 1 1/8	139P10454S4	.1	.750 x 2 1/8	139P10456S4
.15	.750 x 1 1/8	139P15452S4	.15	.750 x 2 1/8	139P15454S4	.15	1.000 x 1 1/8	139P15456S4
.22	.750 x 2 1/8	139P22452S4	.22	1.000 x 1 1/8	139P22454S4	.22	1.000 x 2 1/8	139P22456S4
.33	1.000 x 1 1/8	139P33452S4						
.47	1.000 x 2 1/8	139P47452S4						

140P FILMITE 'F' BATHTUBS

Same electrical characteristics as Type 139P ● Drawn metal bathtub cases ● Listed units have capacitance tolerance of ±5%. For ±20%, change last letter in catalog number from J to M; For ±10% change to K; For ±2% change to G; For ±1% change to F

μF	WVDC	L. x W. x H.	Cat. No.
.68	200	2 x 2 x 1	140P1J
1.0	200	2 x 2 x 1 1/2	140P2J
.47	400	2 x 2 x 1	140P3J
.68	400	2 x 2 x 1 1/2	140P4J
1.0	400	2 1/8 x 2 1/8 x 1 3/4	140P5J
.33	600	2 x 2 x 1	140P6J
.47	600	2 x 2 x 1 1/2	140P7J
.68	600	2 1/8 x 2 1/8 x 1 3/4	140P8J
1.0	600	2 1/8 x 2 1/8 x 2 1/8	140P9J

SPRAGUE CAPACITORS

FILM CAPACITORS, continued

127P FILMITE 'E' TUBULARS

Operating temperature range, -55°C to $+150^{\circ}\text{C}$ ● Even at 150°C , insulation resistance is higher than that of best paper capacitors ● These capacitors use polyester-film dielectric ● Dissipation factor will not exceed 1.3% ● Extend-

ed foil construction for low series resistance ● Units listed below have capacitance tolerance of $\pm 10\%$. For $\pm 20\%$, change 8th digit in catalog number from 9 to 0; for 5% change to 5 ● Units listed below have plastic insulating sleeves. For plain metal case, change last digit in catalog number from 4 to 2

μF	Diam. x Length	Cat. No.	μF	Diam. x Length	Cat. No.	μF	Diam. x Length	Cat. No.
200 WVDC			600 WVDC			1700 WVDC		
.0068	.235 x $1\frac{1}{4}$	127P6829254	.001	.235 x $1\frac{1}{4}$	127P1029654	.001	.400 x $1\frac{1}{4}$	127P10291754
.01	.235 x $1\frac{1}{4}$	127P1039254	.0015	.235 x $1\frac{1}{4}$	127P1529654	.0015	.400 x $1\frac{1}{4}$	127P15291754
.015	.235 x $1\frac{1}{4}$	127P1539254	.0022	.235 x $1\frac{1}{4}$	127P2229654	.0022	.400 x $1\frac{1}{4}$	127P22291754
.022	.235 x $1\frac{1}{4}$	127P2239254	.0047	.312 x $1\frac{1}{4}$	127P4729654	.0033	.400 x $1\frac{1}{4}$	127P33291754
.033	.312 x $1\frac{1}{4}$	127P3339254	.0068	.312 x $1\frac{1}{4}$	127P6829654	.0047	.400 x $1\frac{1}{4}$	127P47291754
.047	.312 x $1\frac{1}{4}$	127P4739254	.01	.312 x $1\frac{1}{4}$	127P1039654	.0068	.400 x $1\frac{1}{4}$	127P68291754
.068	.312 x $1\frac{1}{4}$	127P6839254	.015	.400 x $1\frac{1}{4}$	127P1539654	.01	.562 x $1\frac{1}{4}$	127P10391754
.1	.400 x $1\frac{1}{4}$	127P1049254	.022	.400 x $1\frac{1}{4}$	127P2239654	.015	.562 x $1\frac{1}{4}$	127P15391754
.15	.400 x $1\frac{1}{4}$	127P1549254	.033	.400 x $1\frac{1}{4}$	127P3339654	.022	.562 x $1\frac{1}{2}$	127P22391754
.22	.400 x $1\frac{1}{4}$	127P2249254	.047	.400 x $1\frac{1}{4}$	127P4739654	.033	.670 x $1\frac{1}{2}$	127P33391754
.33	.400 x $1\frac{1}{4}$	127P3349254	.068	.562 x $1\frac{1}{4}$	127P6839654	.047	.750 x $1\frac{1}{2}$	127P47391754
.47	.562 x $1\frac{1}{4}$	127P4749254	.1	.562 x $1\frac{1}{2}$	127P1049654	.068	.750 x $1\frac{1}{2}$	127P68391754
.68	.562 x $1\frac{1}{2}$	127P6849254	.15	.562 x $1\frac{1}{2}$	127P1549654	.1	1.000 x $1\frac{1}{2}$	127P10491754
1.00	.562 x $1\frac{1}{2}$	127P1059254	.22	.670 x $1\frac{1}{2}$	127P2249654	.15	1.000 x $2\frac{1}{2}$	127P15491754
400 WVDC			1000 WVDC			2500 WVDC		
.0033	.235 x $1\frac{1}{4}$	127P3329454	.001	.312 x $1\frac{1}{4}$	127P10291054	.001	.562 x $\frac{7}{8}$	127P10292554
.0047	.235 x $1\frac{1}{4}$	127P4729454	.0015	.312 x $1\frac{1}{4}$	127P15291054	.0015	.562 x $\frac{7}{8}$	127P15292554
.01	.312 x $1\frac{1}{4}$	127P1039454	.0022	.312 x $1\frac{1}{4}$	127P22291054	.0022	.562 x 1	127P22292554
.015	.312 x $1\frac{1}{4}$	127P1539454	.0033	.312 x $1\frac{1}{4}$	127P33291054	.0033	.562 x $1\frac{1}{8}$	127P33292554
.022	.312 x $1\frac{1}{4}$	127P2239454	.0047	.400 x $1\frac{1}{4}$	127P47291054	.0047	.562 x $1\frac{1}{8}$	127P47292554
.033	.400 x $1\frac{1}{4}$	127P3339454	.0068	.400 x $1\frac{1}{4}$	127P68291054	.0068	.562 x $1\frac{1}{8}$	127P68292554
.047	.400 x $1\frac{1}{4}$	127P4739454	.01	.400 x $1\frac{1}{4}$	127P10391054	.01	.562 x $1\frac{1}{8}$	127P10392554
.068	.400 x $1\frac{1}{4}$	127P6839454	.015	.400 x $1\frac{1}{4}$	127P15391054	.015	.670 x $1\frac{1}{8}$	127P15392554
.1	.400 x $1\frac{1}{4}$	127P1049454	.022	.562 x $1\frac{1}{4}$	127P22391054	.022	.750 x $1\frac{1}{8}$	127P22392554
.15	.562 x $1\frac{1}{4}$	127P1549454	.033	.562 x $1\frac{1}{2}$	127P33391054	.033	.750 x $2\frac{1}{8}$	127P33392554
.22	.562 x $1\frac{1}{2}$	127P2249454	.047	.562 x $1\frac{1}{2}$	127P47391054	.047	1.000 x $1\frac{1}{8}$	127P47392554
.33	.562 x $1\frac{1}{2}$	127P3349454	.068	.670 x $1\frac{1}{2}$	127P68391054	.068	1.000 x $2\frac{1}{8}$	127P68392554
.47	.670 x $1\frac{1}{2}$	127P4749454	.1	.750 x $2\frac{1}{8}$	127P10491054			
.68	.750 x $2\frac{1}{8}$	127P6849454	.15	1.000 x $1\frac{1}{2}$	127P15491054			
1.00	.750 x $2\frac{1}{8}$	127P1059454	.22	1.000 x $2\frac{1}{8}$	127P22491054			

141P FILMITE 'G' TUBULARS

TFE fluorocarbon film dielectric ● Operating temperature range, -55°C to $+200^{\circ}\text{C}$ ● Unusually high insulation resistance (in excess of 100,000 megohm-microfarads at 25°C) ● Low dielectric absorption ● Low dissipation factor (less than .02%) ● Excellent humidity resistance ● Small

capacitance change with temperature ● Units listed below have capacitance tolerance of $\pm 10\%$. For $\pm 20\%$, change 8th digit in catalog number from 9 to 0; For $\pm 5\%$ change to 5; For $\pm 2\%$ change to 2; For $\pm 1\%$ change to 1 ● Units listed below have plastic insulating sleeves. For plain metal case, change last digit in catalog number from 4 to 2

μF	Diam. x Length	Cat. No.	μF	Diam. x Length	Cat. No.	μF	Diam. x Length	Cat. No.
200 WVDC			400 WVDC			600 WVDC		
.0015	.235 x $1\frac{1}{4}$	141P1529254	.1	.670 x $1\frac{1}{2}$	141P1049454	.0056	.400 x $1\frac{1}{4}$	141P5629654
.0039	.312 x $1\frac{1}{4}$	141P3929254	.12	.750 x $2\frac{1}{8}$	141P1249454	.0068	.400 x $1\frac{1}{4}$	141P6829654
.0047	.312 x $1\frac{1}{4}$	141P4729254	.15	.750 x $2\frac{1}{8}$	141P1549454	.0082	.400 x $1\frac{1}{4}$	141P8229654
.0082	.400 x $1\frac{1}{4}$	141P8229254	.18	1.000 x $1\frac{1}{2}$	141P1849454	.01	.400 x $1\frac{1}{4}$	141P1039654
.01	.400 x $1\frac{1}{4}$	141P1039254	.22	1.000 x $1\frac{1}{2}$	141P2249454	.012	.400 x $1\frac{1}{4}$	141P1239654
.012	.400 x $1\frac{1}{4}$	141P1239254	.27	1.000 x $2\frac{1}{8}$	141P2749454	.015	.400 x $1\frac{1}{4}$	141P1539654
.015	.400 x $1\frac{1}{4}$	141P1539254	.33	1.000 x $2\frac{1}{8}$	141P3349454	.018	.562 x $1\frac{1}{8}$	141P1839654
.018	.400 x $1\frac{1}{4}$	141P1839254	600 WVDC			.022	.562 x $1\frac{1}{8}$	141P2239654
.022	.400 x $1\frac{1}{4}$	141P2239254	.001	.235 x $1\frac{1}{4}$	141P1029654	.027	.562 x $1\frac{1}{4}$	141P2739654
.027	.562 x $1\frac{1}{8}$	141P2739254	.0012	.312 x $1\frac{1}{4}$	141P1229654	.033	.562 x $1\frac{1}{4}$	141P3339654
.033	.562 x $1\frac{1}{8}$	141P3339254	.0015	.312 x $1\frac{1}{4}$	141P1529654	.039	.562 x $1\frac{1}{2}$	141P3939654
.039	.562 x $1\frac{1}{4}$	141P3939254	.0018	.312 x $1\frac{1}{4}$	141P1829654	.047	.562 x $1\frac{1}{2}$	141P4739654
.047	.562 x $1\frac{1}{4}$	141P4739254	.0022	.312 x $1\frac{1}{4}$	141P2229654	.056	.562 x $1\frac{1}{2}$	141P5639654
.056	.562 x $1\frac{1}{2}$	141P5639254	.0027	.312 x $1\frac{1}{4}$	141P2729654	.068	.562 x $1\frac{1}{2}$	141P6839654
.068	.562 x $1\frac{1}{2}$	141P6839254	.0033	.312 x $1\frac{1}{4}$	141P3329654	.082	1.000 x $1\frac{1}{8}$	141P8239654
.082	.562 x $1\frac{1}{2}$	141P8239254	.0039	.400 x $1\frac{1}{4}$	141P3929654	.1	1.000 x $1\frac{1}{8}$	141P1049654
.1	.562 x $1\frac{1}{2}$	141P1049254	.0047	.400 x $1\frac{1}{4}$	141P4729654	.12	1.000 x $2\frac{1}{8}$	141P1249654
						.15	1.000 x $2\frac{1}{8}$	141P1549654

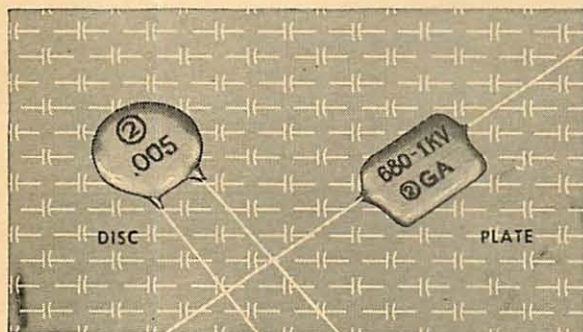
142P FILMITE 'G' OVALS

Same electrical characteristics as Type 141P ● Drawn metal oval cases ● Listed units have capacitance tolerance of $\pm 5\%$. For $\pm 20\%$, change last letter in catalog number from J to M; For $\pm 10\%$ change to K; For $\pm 2\%$ change to G; For $\pm 1\%$ change to F

μF	WVDC	W. x T. x H.	Cat. No.
.68	200	$2\frac{1}{2} \times 1\frac{1}{8} \times 2\frac{1}{8}$	142PJ
1.0	200	$2\frac{1}{2} \times 1\frac{1}{8} \times 2\frac{3}{4}$	142PJ
.68	400	$2\frac{1}{2} \times 1\frac{1}{8} \times 2\frac{1}{2}$	142PJ
1.0	400	$2\frac{1}{2} \times 1\frac{1}{8} \times 3\frac{1}{8}$	142PJ
.33	600	$2\frac{1}{2} \times 1\frac{1}{8} \times 2\frac{1}{8}$	142PJ
.47	600	$2\frac{1}{2} \times 1\frac{1}{8} \times 3\frac{1}{2}$	142PJ

SPRAGUE CAPACITORS

CERA-MITE® CERAMIC CAPACITORS



- Tiny, Tough, Dependable In Every Application
- Low Self-inductance Of Silvered Flat-plate Design Means Very High By-pass Efficiency In All TV Circuits
- Flat-plate Construction Permits Higher Self-resonant Frequency Than Tubular Ceramic Or Molded Mica Capacitors
- Tough Moisture-proof Coating Protects Against Short-circuiting And Assures Good Performance Under Severe Conditions Of Humidity And Vibration
- Cera-mite Capacitors Easily Fit Into Tight Spaces, Even Across Subminiature Tube Sockets
- Designed For 85 °C (185 °F) Continuous Operation

GENERAL APPLICATION TYPES

- Excellent Where Temperature Coefficient Is Not Important, Such As By-pass and Coupling Applications
- Ideal For Replacing Older Types Of General Application Capacitors Such as Molded Micacs, Tubular Ceramics, and Paper Tubulars

$\mu\mu\text{F}$	Cat. No.	List	$\mu\mu\text{F}$	Cat. No.	List	$\mu\mu\text{F}$	Cat. No.	List	$\mu\mu\text{F}$	Cat. No.	List	$\mu\mu\text{F}$	Cat. No.	List
500 WVDC (plates) Std. Tolerance $\pm 20\%$			220	5GA-T22	\$.25	3000 WVDC (discs) Std. Tolerances: 1.5 $\mu\mu\text{F}$ $\pm 25\%$ $\mu\mu\text{F}$ thru 5 $\mu\mu\text{F}$ $\pm 5\%$ $\mu\mu\text{F}$ thru 68 $\mu\mu\text{F}$ $\pm 10\%$ thru .002 μF $\pm 20\%$			330	30GA-T33	\$.40	150	60GA-T15	\$.50
470	5GAB-T47	\$.35	240	5GA-T24	.25	390	30GA-T39	.40	180	60GA-T18	.50	200	60GA-T20	.50
.001 μF	5GAB-D10	.35	250	5GA-T25	.25	400	30GA-T40	.40	220	60GA-T22	.50	250	60GA-T25	.55
.0022	5GAB-D22	.45	270	5GA-T27	.25	470	30GA-T47	.40	270	60GA-T27	.55	300	60GA-T30	.55
.0047	5GAB-D47	.45	300	5GA-T30	.25	560	30GA-T56	.40	300	60GA-T30	.55	330	60GA-T33	.55
.01	5GAB-S10	.65	330	5GA-T33	.25	680	30GA-T68	.40	330	60GA-T33	.55	390	60GA-T39	.55
.022	5GAB-S22	.65	350	5GA-T35	.25	750	30GA-T75	.40	400	60GA-T40	.55	470	60GA-T47	.55
.047	5GAB-S47	.70	360	5GA-T36	.25	820	30GA-T82	.40	500	60GA-T50	.55	560	60GA-T56	.55
.1	5GAB-P10	.75	390	5GA-T39	.25	.001 μF	30GA-D10	.40	560	60GA-T56	.55	680	60GA-T68	.55
.15	5GAB-P15	.80	400	5GA-T40	.25	.0012	30GA-D12	.40	750	60GA-T75	.55	820	60GA-T82	.55
1000 WVDC (discs) Std. Tolerance $\pm 20\%$			470	5GA-T47	.25	.0015	30GA-D15	.40	820	60GA-T82	.55	6000 WVDC (discs) Std. Tolerance $\pm 20\%$		
5	5GA-V50	\$.25	500	5GA-T50	.25	.002	30GA-D20	.40	1.5	60GA-V15	.50	Std. Tolerances: 4.7 μF $\pm 5\%$ μF thru 18 μF $\pm 10\%$ thru 470 μF $\pm 20\%$		
6	5GA-V60	.25	560	5GA-T56	.25	10	30GA-Q10	.40	4.7	60GA-V47	.50	750	75GA-V75	.50
7.5	5GA-V75	.25	600	5GA-T60	.25	12	30GA-Q12	.40	6.8	60GA-V68	.50	8.2	75GA-V82	.50
8	5GA-V80	.25	680	5GA-T68	.25	15	30GA-Q15	.40	8.2	60GA-V82	.50	10	75GA-Q10	.50
10	5GA-Q10	.25	750	5GA-T75	.25	18	30GA-Q18	.40	10	60GA-Q10	.50	12	75GA-Q12	.50
12	5GA-Q12	.25	800	5GA-T80	.25	20	30GA-Q20	.40	12	60GA-Q12	.50	15	75GA-Q15	.50
15	5GA-Q15	.25	820	5GA-T82	.25	22	30GA-Q22	.40	15	60GA-Q15	.50	18	75GA-Q18	.50
18	5GA-Q18	.25				25	30GA-Q25	.40	18	60GA-Q18	.50	20	75GA-Q20	.50
20	5GA-Q20	.25				27	30GA-Q27	.40	20	60GA-Q20	.50			
22	5GA-Q22	.25	.001 μF	5GA-D10	.25	30	30GA-Q30	.40	22	60GA-Q22	.50			
25	5GA-Q25	.25	.0012	5GA-D12	.25	33	30GA-Q33	.40	25	60GA-Q25	.50			
27	5GA-Q27	.25	.0013	5GA-D13	.25	39	30GA-Q39	.40	27	60GA-Q27	.50			
30	5GA-Q30	.25	.0015	5GA-D15	.25	47	30GA-Q47	.40	30	60GA-Q30	.50			
33	5GA-Q33	.25	.0016	5GA-D16	.25	50	30GA-Q50	.40	33	60GA-Q33	.50			
39	5GA-Q39	.25	.0018	5GA-D18	.25	56	30GA-Q56	.40	39	60GA-Q39	.50			
47	5GA-Q47	.25	.002	5GA-D20	.25	60	30GA-Q60	.40	47	60GA-Q47	.50			
50	5GA-Q50	.25	.0022	5GA-D22	.25	62	30GA-Q62	.40	50	60GA-Q50	.50			
56	5GA-Q56	.25	.0025	5GA-D25	.25	68	30GA-Q68	.40	56	60GA-Q56	.50			
68	5GA-Q68	.25	.0027	5GA-D27	.25	75	30GA-Q75	.40	60	60GA-Q60	.50			
75	5GA-Q75	.25	.003	5GA-D30	.25	82	30GA-Q82	.40	68	60GA-Q68	.50			
82	5GA-Q82	.25	.0033	5GA-D33	.25	100	30GA-T100	.40	75	60GA-Q75	.50			
91	5GA-Q91	.25	.0039	5GA-D39	.25	120	30GA-T120	.40	82	60GA-Q82	.50			
100	5GA-T100	.25	.004	5GA-D40	.25	150	30GA-T150	.40	100	60GA-T100	.50			
120	5GA-T120	.25	.0043	5GA-D43	.30	180	30GA-T180	.40	120	60GA-T120	.50			
130	5GA-T130	.25	.0047	5GA-D47	.30	200	30GA-T200	.40	150	60GA-T150	.50			
150	5GA-T150	.25	.005	5GA-D50	.30	220	30GA-T220	.40	180	60GA-T180	.50			
180	5GA-T180	.25	.01	5GA-S10	.30	250	30GA-T250	.40	200	60GA-T200	.50			
200	5GA-T200	.25	.015	5GA-S15	.30	270	30GA-T270	.40	220	60GA-T220	.50			
			.02	5GA-S20	.30	300	30GA-T300	.40	250	60GA-T250	.50			

SPRAGUE CAPACITORS

CERA-MITE CERAMIC CAPACITORS, continued

HIGH-K TYPES

- Designed Specifically for Minimum Capacitance Requirements
- Intended for By-pass and Coupling Applications where Additional Capacitance is Not Important
- Rated at 1000 WVDC
- Units listed below are discs

μF	Cat. No.	List	μF	Cat. No.	List
SINGLE UNITS					
.001	5HK-D10	\$.25	.02	5HK-S20	\$.60
.0015	5HK-D15	.25	.025	5HK-S25	.65
.002	5HK-D20	.25	.03	5HK-S30	.65
.0022	5HK-D22	.25	.04	5HK-S40	.70
.0025	5HK-D25	.25	.05	5HK-S50	.70
			.1	5HK-P10	.80
DUAL UNITS					
.0033	5HK-D33	.25	2 x .001	5HK-2D10	\$.40
.004	5HK-D40	.25	2 x .0015	5HK-2D15	.40
.0047	5HK-D47	.25	2 x .002	5HK-2D20	.40
.005	5HK-D50	.25	2 x .0022	5HK-2D22	.40
.0068	5HK-D68	.25	2 x .004	5HK-2D40	.45
			2 x .0047	5HK-2D47	.45
.01	5HK-S10	.30	2 x .01	5HK-2S10	.50
.015	5HK-S15	.40	2 x .02	5HK-2S20	.70

NPO TYPES

- Zero Temperature-coefficient Capacitors used Where Capacitance Change with Temperature is Undesirable
- Superior to Silvered-mica Types in Stability, High "Q", and Insulation Resistance
- Rated at 1000 WVDC
- Standard Capacitance Tolerance of $5\mu\text{F}$ and up: $\pm 5\%$. On $4.7\mu\text{F}$ and below: $\pm .25\mu\text{F}$
- Units listed below are discs

μF	Cat. No.	List	μF	Cat. No.	List
1	10TCC-V10	\$.50	27	10TCC-Q27	\$.50
1.2	10TCC-V12	.50	30	10TCC-Q30	.50
1.5	10TCC-V15	.50	33	10TCC-Q33	.50
1.8	10TCC-V18	.50	39	10TCC-Q39	.55
2.2	10TCC-V22	.50	47	10TCC-Q47	.55
2.7	10TCC-V27	.50	50	10TCC-Q50	.55
3.3	10TCC-V33	.50	56	10TCC-Q56	.55
3.9	10TCC-V39	.50	68	10TCC-Q68	.55
4.7	10TCC-V47	.50	75	10TCC-Q75	.55
5	10TCC-V50	.50	82	10TCC-Q82	.55
5.6	10TCC-V56	.50	100	10TCC-T10	.55
6.8	10TCC-V68	.50	120	10TCC-T12	.60
8.2	10TCC-V82	.50	150	10TCC-T15	.60
10	10TCC-Q10	.50	175	10TCC-T175	.50
12	10TCC-Q12	.50	180	10TCC-T18	.60
15	10TCC-Q15	.50	200	10TCC-T20	.70
18	10TCC-Q18	.50	220	10TCC-T22	.70
20	10TCC-Q20	.50	270	10TCC-T27	.80
22	10TCC-Q22	.50	300	10TCC-T30	.80
25	10TCC-Q25	.50	330	10TCC-T33	.80

TEMPERATURE-STABLE TYPES

- Used where minimum capacitance change with temperature is an important consideration
- Wide range of capacitance values available
- Rated at 1000 volts d-c working
- Standard capacitance tolerance $\pm 10\%$

μF	Cat. No.	List	μF	Cat. No.	List	μF	Cat. No.	List
3.3	10TS-V33	\$.25	100	10TS-T10	\$.25	.001	10TS-D10	\$.25
5	10TS-V50	.25	120	10TS-T12	.25	.0012	10TS-D12	.25
6	10TS-V60	.25	130	10TS-T13	.25	.0013	10TS-D13	.25
6.8	10TS-V68	.25	150	10TS-T15	.25	.0015	10TS-D15	.25
7.5	10TS-V75	.25	180	10TS-T18	.25	.0016	10TS-D16	.25
8	10TS-V80	.25	200	10TS-T20	.25	.0018	10TS-D18	.25
10	10TS-Q10	.25	220	10TS-T22	.25	.002	10TS-D20	.25
12	10TS-Q12	.25	240	10TS-T24	.25	.0022	10TS-D22	.25
15	10TS-Q15	.25	250	10TS-T25	.25	.0025	10TS-D25	.25
18	10TS-Q18	.25	270	10TS-T27	.25	.0027	10TS-D27	.25
20	10TS-Q20	.25	300	10TS-T30	.25	.003	10TS-D30	.25
22	10TS-Q22	.25	330	10TS-T33	.25	.0033	10TS-D33	.25
25	10TS-Q25	.25	350	10TS-T35	.25	.0039	10TS-D39	.25
27	10TS-Q27	.25	360	10TS-T36	.25	.004	10TS-D40	.25
30	10TS-Q30	.25	390	10TS-T39	.25	.0043	10TS-D43	.30
33	10TS-Q33	.25	400	10TS-T40	.25	.0047	10TS-D47	.30
39	10TS-Q39	.25	470	10TS-T47	.25	.005	10TS-D50	.30
47	10TS-Q47	.25	500	10TS-T50	.25	.0056	10TS-D56	.30
50	10TS-Q50	.25	560	10TS-T56	.25	.0068	10TS-D68	.30
56	10TS-Q56	.25	600	10TS-T60	.25	.0075	10TS-D75	.30
68	10TS-Q68	.25	680	10TS-T68	.25	.01	10TS-S10	.30
75	10TS-Q75	.25	750	10TS-T75	.25	.015	10TS-S15	.30
82	10TS-Q82	.25	800	10TS-T80	.25	.02	10TS-S20	.30
91	10TS-Q91	.25	820	10TS-T82	.25			

TEMPERATURE-COMPENSATING TYPES

- Eliminate oscillator drift in TV, f-m, v-h-f, and a-m receivers
- Negative Temperature Coefficient is 150 ppm/ $^{\circ}\text{C}$ for N150 types, 220 ppm/ $^{\circ}\text{C}$ for N220, 330 for N330, and 750 for N750 types
- Rated at 1000 WVDC
- Standard Capacitance Tolerance of $5\mu\text{F}$ and up; $\pm 5\%$. On $4.7\mu\text{F}$ and below: $\pm .25\mu\text{F}$

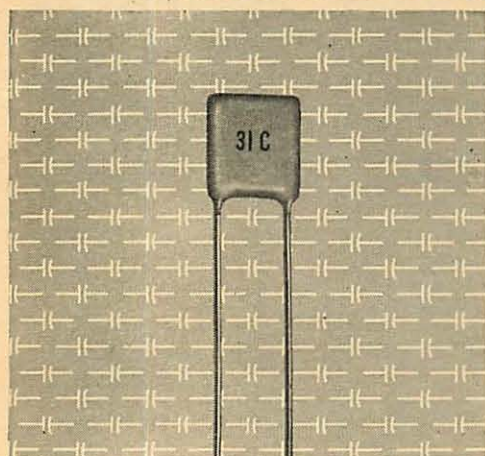
μF	Cat. No.	List	μF	Cat. No.	List	μF	Cat. No.	List
N150								
5	10TCP-V50	\$.50	15	10TCR-Q15	.50	N750		
6.8	10TCP-V68	.50	18	10TCR-Q18	.50	2.2	10TCU-V22	.50
8.2	10TCP-V82	.50	22	10TCR-Q22	.50	3.3	10TCU-V33	.50
10	10TCP-Q10	.50	27	10TCR-Q27	.50	5	10TCU-V50	.50
12	10TCP-Q12	.50	33	10TCR-Q33	.50	10	10TCU-Q10	.50
15	10TCP-Q15	.50	39	10TCR-Q39	.55	12	10TCU-Q12	.50
18	10TCP-Q18	.50	47	10TCR-Q47	.55	15	10TCU-Q15	.50
22	10TCP-Q22	.50	56	10TCR-Q56	.55	18	10TCU-Q18	.50
27	10TCP-Q27	.50	68	10TCR-Q68	.55	20	10TCU-Q20	.50
33	10TCP-Q33	.50	82	10TCR-Q82	.55	22	10TCU-Q22	.50
39	10TCP-Q39	.55	100	10TCR-T10	.55	25	10TCU-Q25	.50
47	10TCP-Q47	.55	120	10TCR-T12	.60	27	10TCU-Q27	.50
56	10TCP-Q56	.55	150	10TCR-T15	.60	33	10TCU-Q33	.50
68	10TCP-Q68	.55	N330			39	10TCU-Q39	.50
82	10TCP-Q82	.55	10	10TCS-Q10	.50	47	10TCU-Q47	.50
100	10TCP-T10	.55	12	10TCS-Q12	.50	56	10TCU-Q56	.50
120	10TCP-T12	.60	15	10TCS-Q15	.50	68	10TCU-Q68	.50
150	10TCP-T15	.60	18	10TCS-Q18	.50	75	10TCU-Q75	.50
N220								
3	10TCR-V30	.50	22	10TCS-Q22	.50	82	10TCU-Q82	.50
3.3	10TCR-V33	.50	27	10TCS-Q27	.50	100	10TCU-T10	.50
3.9	10TCR-V39	.50	33	10TCS-Q33	.50	120	10TCU-T12	.50
4.7	10TCR-V47	.50	39	10TCS-Q39	.55	150	10TCU-T15	.50
5	10TCR-V50	.50	47	10TCS-Q47	.55	180	10TCU-T18	.50
5.6	10TCR-V56	.50	56	10TCS-Q56	.55	200	10TCU-T20	.50
6.8	10TCR-V68	.50	68	10TCS-Q68	.55	220	10TCU-T22	.50
8.2	10TCR-V82	.50	82	10TCS-Q82	\$.55	270	10TCU-T27	.50
10	10TCR-Q10	.50	100	10TCS-T10	.55	330	10TCU-T33	.50
12	10TCR-Q12	.50	120	10TCS-T12	.60	390	10TCU-T39	.60
15	10TCR-Q15	.50	150	10TCS-T15	.60	470	10TCU-T47	.70
18	10TCR-Q18	.50				560	10TCU-T56	.80
20	10TCR-Q20	.50				680	10TCU-T68	.80

SPRAGUE CAPACITORS

CERA-MITE CERAMIC CAPACITORS, continued

DISC CERAMICS FOR AC APPLICATIONS			DISC CERAMICS FOR BUFFER APPLICATIONS			MINIATURIZED DISC TYPES FOR TRANSISTORIZED CIRCUITRY				TV YOKE CAPACITORS		
● Rated at 125 VAC ● Std. Tolerance ±20%			● Rated at 2000 WVDC ● Std. Tolerance ±20%			● High-K Type for Coupling and Bypass				● 30 TCY rated at 3000 WVDC ● 50 TCY rated at 5000 WVDC ● Std. Tolerance ±10%		
μF	Cat. No.	List	μF	Cat. No.	List	μF	Volts	Cat. No.	List	μF	Cat. No.	List
.001	125L-D10	\$.25	.001	BL-D10	\$.35	.005	50	TG-D50	\$.45	50	30TCY-Q50	\$.40
.0015	125L-D15	.25	.002	BL-D20	.35	.01	50	TG-S10	.65	75	30TCY-Q75	.40
.002	125L-D20	.25	.003	BL-D30	.35	.02	50	TG-S20	.65	100	30TCY-T10	.40
.0047	125L-D47	.30	.004	BL-D40	.35	.025	50	TG-S25	.65	135	30TCY-T135	.40
.005	125L-D50	.30	.005	BL-D50	.35	.03	50	TG-S30	.65	150	30TCY-T15	.40
.01	125L-S10	.30	.006	BL-D60	.35	.05	50	TG-S50	.70	180	30TCY-T18	.40
.015	125L-S15	.50	.007	BL-D70	.35	.1	50	TG-P10	.90	50	50TCY-Q50	.50
.02	125L-S20	.50	.0075	BL-D75	.35	.005		TH-D50	.45	75	50TCY-Q75	.50
2 x .005	125L-2D50	.50	.008	BL-D80	.35	.01		TH-S10	.65	100	50TCY-T10	.50
2 x .01	125L-2S10	.55	.01	BL-S10	.35	.02		TH-S20	.65	135	50TCY-T15	.50
						.025		TH-S25	.65	150	50TCY-T15	.50
						.03		TH-S30	.65	180	50TCY-T18	.50
						.05		TH-S50	.70			
						.1		TH-P10	.90			

MONOLYTHIC[®] CERAMIC CAPACITORS

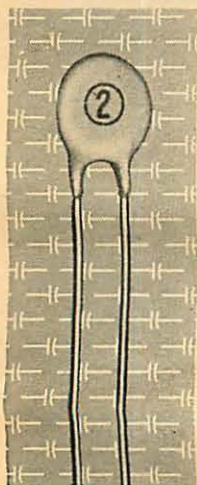


CAPACITOR ILLUSTRATED
IS ACTUAL SIZE

- Developed for use in transistorized circuitry and minified electronic equipment
- Temperature rating: -55°C to +85°C
- Small physical size: 1/2" x 1/2" x 1/8" thick max.
- Special automatic machinery sprays alternate layers of ceramic dielectric and metallic electrodes until desired capacitance is achieved
- Excellent humidity resistance is assured by the solid homogeneous block construction

μF	Cat. No.	μF	Cat. No.
25 VOLTS D-C			
.2		.2	31C6
.3		.3	31C7
.075	31C3	.5	31C8
.1	31C4	.75	31C9
.15	31C5		

HYPERCON^{*} CERAMIC DISCS



- Ultra-miniature ceramic discs ideal for use in transistorized circuitry
- Designed for by-pass and coupling applications but particularly well-suited for any low voltage use where high capacitance and low power factor are important considerations
- Superior to electrolytic capacitors of similar capacitance values because of the very low power factor of Hypercon Capacitors
- Capacitance Tolerance: GMV

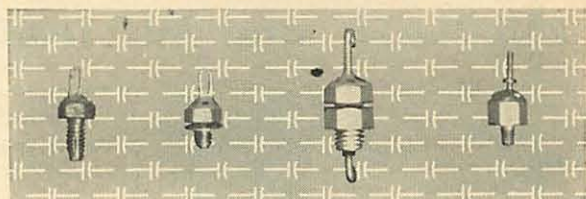
*Trademark

μF	Cat. No.	List
3 VOLTS D-C		
.1	HY-120	\$.60
.22	HY-125	.35
.47	HY-130	.35
1.0	HY-135	.35
2.2	HY-150	.35

SPRAGUE CAPACITORS

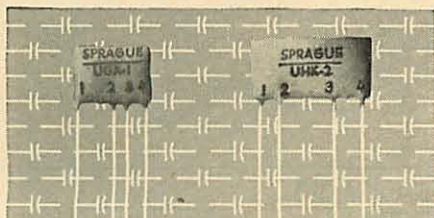
BUTTONHEAD CERAMICS

μF	Cap. Tol.	Cat. No.	List
47	±20%	BH-105	\$.70
100	±20%	BH-110	.70
220	±20%	BH-115	.70
470	GMV	BH-120	.70
1000	GMV	BH-140	.70
47	±20%	BH-205	.90
100	±20%	BH-210	.90
220	±20%	BH-215	.90
470	GMV	BH-220	.90
680	GMV	BH-225	.90
1000	GMV	BH-240	.90
47	±20%	BH-305	1.15
100	±20%	BH-310	1.15
470	±20%	BH-320	1.15
470	GMV	BH-321	1.15
1000	GMV	BH-340	1.15
47	±20%	BH-405	.80
100	±20%	BH-410	.80
470	GMV	BH-420	.80
1000	GMV	BH-440	.80



- Designed for u-h-f TV Receivers and Electronic Equipment
- Flat Disc Design Means Low Self-inductance and High Self-Resonant Frequency—Superior to Similar Units using Tubular Ceramic Elements
- Capacitor Element Seated in Top of Unit with Plastic Resin
- BH-305 series are Feed-Thru Capacitors Intended for Filtering Leads thru Chassis—have 12-28 Double-Flatted Screw
- Stand-off Capacitors for By-pass Applications: BH-105 series has Self-tapping No.-6-32 Thread, the BH-205 series has Standard No. 6-32 Machine Screw Thread with Captive Lock-washer, and the BH-405 series has No. 3-48 Thread
- All Screw-mounting Types Have Hexagon Heads
- Units Listed Here are Rated at 500 WVDC

"UNIVERSAL" CERAMIC CAPACITORS



- Another EXCLUSIVE Sprague Development Designed for the Convenience of Dealers and Service Technicians
- Intended for Field or Shop Use as Replacements for Conventional Capacitors Which Cannot be Immediately Obtained

- These Remarkable New Units are Ceramic Plate Capacitors with four leads. By Using Certain Leads for Terminals, Soldering Certain Leads Together, and Cutting Off Certain Leads, Many Ratings May be Obtained
- UGA-1 and UGA-2 Are General Application Types Intended for Bypass and Coupling Applications. Ideal for Replacing Older G-A Types, such as Molded Micas, Tubular Ceramics, Paper Tubulars
- UHK-1 and UHK-2 Are High-K Types for Use Where Minimum Capacitance is Required. Can Also Be Used for Bypass and Coupling Where Additional Capacitance is Not Important
- "Universal" Ceramics Come Complete With Simple Instructions on How To Make Up Desired Ratings

"UNIVERSAL" CERAMICS CAN BE QUICKLY CONVERTED TO RATINGS (μF) SHOWN IN TABLE BELOW

UGA-1	UGA-2	UHK-1	UHK-2
.0004	.0006		
.00047	.00068	.001	.0025
.0005	.00075		
.00056	.0008	.0015	.0033
.0006	.00082		
.00068	.001	.002	.004
.00075	.0012	.0022	.0047
.0008	.0013		
.00082	.0015	.0025	.005
.001	.0016	.0025	
.0012	.0018		.0068
.0013	.002	.0033	
.0015	.0022		.01
.0016	.0025	.004	.015
.0018	.0027		

Cat. No.	Type	Ratings Available	Capacitance (Range μF)	Tolerance	WVDC	LxWxT.	List
UGA-1	G-A	12	.0004 to .0013	±20%	500	2 ⁵ / ₃₂ x ⁵ / ₈ x ⁵ / ₃₂	\$.50
UGA-2	G-A	15	.0006 to .0027	±20%	500	1 ¹ / ₈ x ⁵ / ₈ x ⁵ / ₃₂	.60
UHK-1	High-K	7	.001 to .004	gmV	500	2 ⁵ / ₃₂ x ⁵ / ₈ x ⁵ / ₃₂	.50
UHK-2	High-K	8	.0025 to .015	gmV	500	1 ¹ / ₈ x ⁵ / ₈ x ⁵ / ₃₂	.60

BULPLATE® MULTIPLE CERAMIC CAPACITORS



- These Rugged Units Combine in One Compact Assembly All the Capacitors Used in One or More Stages of a Radio Circuit
- Fit Tight Spaces in Miniature Sets
- Rated at 500 WVDC, 1000 VDC Test

MFD.	Capacitance	Tolerance
1&2	.002	±100%
3&4	.00022	±50%
4&5	.00022	±50%
5&6	.005	±100%

Cat. No. 34C3 List, \$.75

MFD.	Capacitance	Tolerance
1&2	.002	±100%
3&5	.00015	±100%
4&5	.005 MIN.	
5&6	.0001	±75%
6&7	.005	±25%

Cat. No. 34C4 List, \$.90

MFD.	Capacitance	Tolerance
1&2	.002	±100%
3&4	.005 MIN.	
4&5	.0001	±75%
5&6	.005	±100%

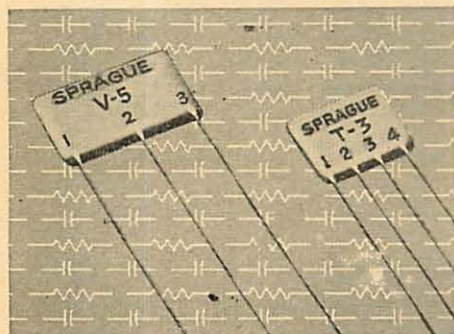
Cat. No. 34C5 List, \$.75

MFD.	Capacitance	Tolerance
3x.004	.012	MIN.
3x.004	.012	MIN.
3x.004	.012	MIN.

Cat. No. 34C6 List, \$.65

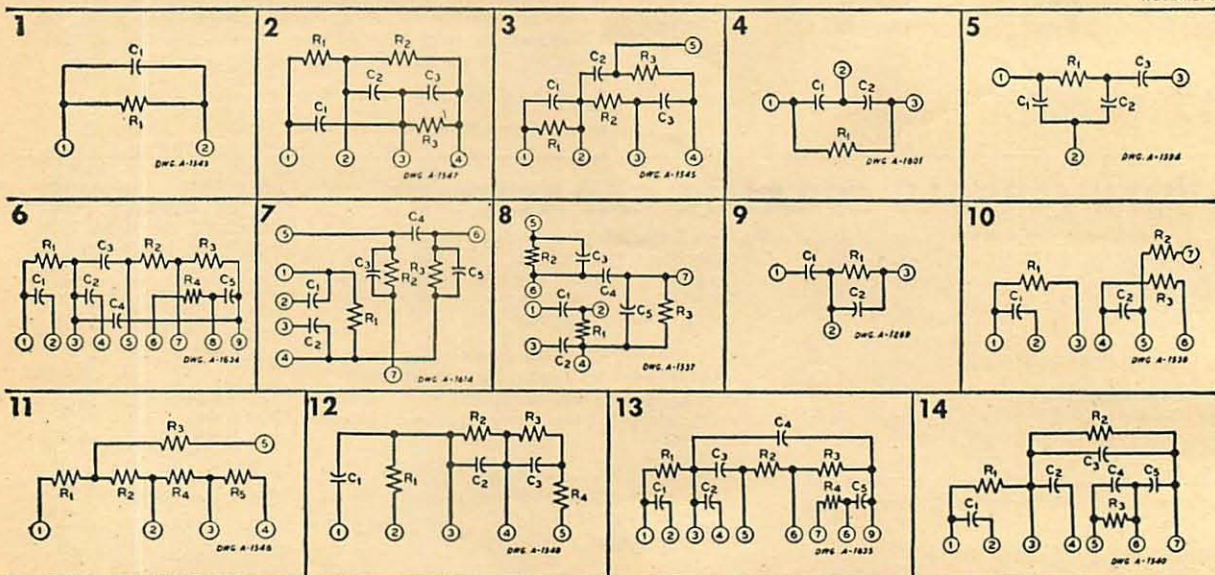
SPRAGUE CAPACITORS

BULPLATE® and MULTI-COMP* PRINTED CIRCUITS



- Bulplates (rectangular plates) and Multi-comps (circular discs) are especially designed to save space and reduce assembly time
- Completed units are protected by a tough moisture-proof coating
- Maximum voltage to be applied across these units is 250 volts d-c, except on D-1 which is rated at 100 volts d-c
- Types ACI-1, ACI-2, ACI-3, ACI-4, PRC-1, PRC-3, PRC-4, PRC-5, PRC-6, V-14, and V-15 are Multi-comp disc-type units—All others are Bulplate rectangular plates
- Combinations of resistors and capacitors of maximum compactness
- Integral connections are "printed" and brought out to external leads which are anchored to the basic ceramic plate

*trademark



ANTENNA-CHASSIS ISOLATION

Fig.	C ₁ (μμF)	R ₁ (MΩ)	Cat. No.	List Price
1	470	.2 - 1.0	ACI-1	\$.25
1	4700	.75 - 1.5	ACI-2	.35
1	1000	.75 - 1.5	ACI-3	.30
1	5000	.2 - 1.0	ACI-4	.35

AUTOMATIC GAIN CONTROL

Fig.	R ₁ (KΩ)	R ₂ (KΩ)	R ₃ (KΩ)	R ₄ (KΩ)	R ₅ (KΩ)	Cat. No.	List Price
11	71.2	126	389	82	820	AGC-1	\$.65

PHASE COMPARATOR

Fig.	C ₁ (μμF)	C ₂ (μμF)	C ₃ (μμF)	R ₁ (KΩ)	R ₂ (KΩ)	R ₃ (KΩ)	R ₄ (KΩ)	Cat. No.	List Price
12	82	100	1000	680	680	4700	200	C-1	\$.70
2	1000	150	150	100	100	100	—	C-2	.65
3	180	150	150	680	390	8.2	—	C-3	.70
12	68	120	1000	100	680	4700	220	C-4	.70
12	82	200	1500	100	680	4700	220	C-5	.80

DIODE FILTER

Fig.	C ₁ (μμF)	C ₂ (μμF)	R ₁ (KΩ)	Cat. No.	List Price
4	100	100	47	D-1	\$.60
4	150	150	47	D-2	.60

DIODE FILTER (Continued)

Fig.	C ₁ (μμF)	C ₂ (μμF)	C ₃ (μμF)	R ₁ (KΩ)	Cat. No.	List Price
4	50	50	—	47	D-3	\$.60
4	100	100	—	100	D-4	.60
5	330	680	.01	100	D-5	.80

DETECTOR PENTODE COUPLING

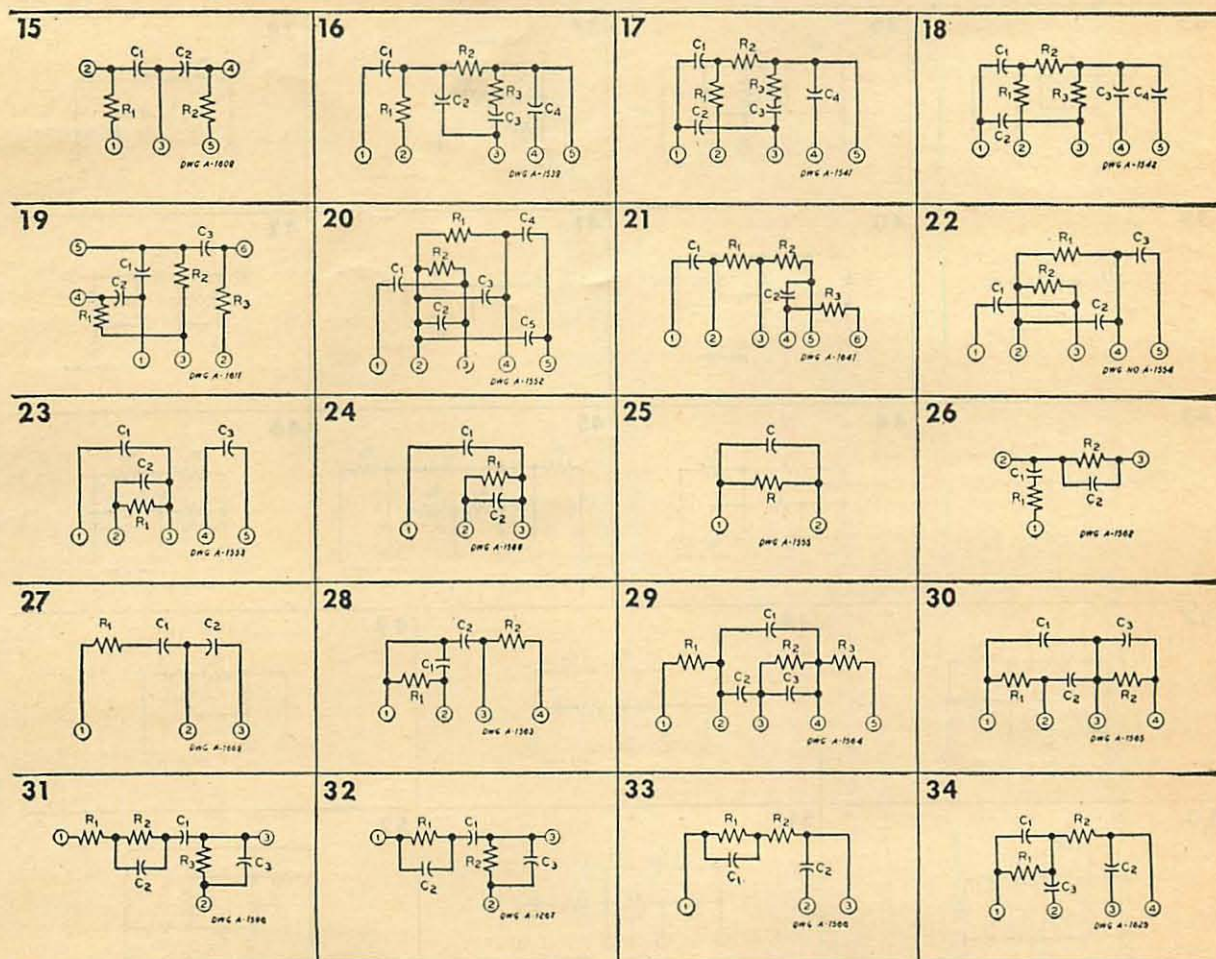
Fig.	C ₁ (μF)	C _{2, C₃} (μμF)	C ₄ (μF)	C ₅ (μF)	R ₁ (MΩ)	R ₂ (MΩ)	R ₃ (MΩ)	R ₄ (MΩ)	Cat. No.	List Price
6	.002	150	.01	.005	10	4.7	1.0	3.3	DP-1	\$1.25
6	.002	150	.01	.005	4.7	4.7	1.0	2.2	DP-2	1.00
13	.005	150	.01	.0005	10	4.7	1.0	3.3	DP-3	1.50
6	.001	68	.01	.0025	10	4.7	1.0	3.3	DP-4	1.25
6	.002	150	.01	.005	10	4.7	1.0	3.3	DP-5	1.25

DETECTOR TRIODE COUPLING

Fig.	C ₁ (μF)	C ₂ (μμF)	C ₃ (μμF)	C ₄ (μF)	C ₅ (μμF)	R ₁ (MΩ)	R ₂ (KΩ)	R ₃ (KΩ)	Cat. No.	List Price
7	.0022	220	220	.0047	220	6.8	470	470	DT-1	\$1.00
7	.005	220	220	.005	220	6.8	470	470	DT-2	1.15
7	.002	220	500	.005	500	6.8	470	470	DT-3	1.00
7	.002	220	250	.005	250	6.8	470	470	DT-4	1.00
7	.005	220	250	.005	250	6.8	470	470	DT-5	1.15
7	.005	220	250	.005	250	10	470	470	DT-6	1.15
7	.005	220	125	.005	250	6.8	470	470	DT-7	1.00
14	.002	400	220	.00022	5000	6.8	470	470	DT-8	.95
8	.002	400	220	.005	220	6.8	470	470	DT-9	.70
10	.005	5000	—	—	—	6.8	470	—	DT-10	.85
9	.01	50	—	—	—	4.7	—	—	DT-11	.75

SPRAGUE CAPACITORS

BULPLATE and MULTI-COMP PRINTED CIRCUITS, continued



DECOUPLING FILTER

Fig.	C ₁ (μF)	C ₂ (μF)	R ₁ (Ω)	R ₂ (Ω)	Cat. No.	List Price
15	.0047	.0047	1000	1000	F-1	\$.85
15	.0047	.0047	220	820	F-2	.85

HORIZONTAL NETWORK

Fig.	C ₁ (μF)	C ₂ (μF)	C ₃ (μF)	C ₄ (μF)	R ₁ (KΩ)	R ₂ (KΩ)	R ₃ (KΩ)	Cat. No.	List Price
16	.001	.0015	390	.003	10	39	5.6	HN-1	\$.90
17	.001	.002	390	.003	15	39	5.6	HN-2	.90
18	.001	.001	390	.003	8.2	39	8.2	HN-3	.90

PENTODE COUPLING

Fig.	C ₁ (μF)	C ₂ (μF)	C ₃ (μF)	C ₄ (μF)	R ₁ (MΩ)	R ₂ (MΩ)	R ₃ (MΩ)	Cat. No.	List Price
19	47	.0022	.0047	—	4.7	1.0	2.2	P-1	\$.90
19	100	.0047	.0047	—	4.7	1.0	2.2	P-2	.90
19	100	.005	.002	—	4.7	1.0	2.2	P-3	1.00
20	5000	.00047	.00047	.003	1.5	10	—	P-4	.85
21	6800	.01	—	—	6.8	1.0	.47	P-5	1.00
22	5000	.001	.003	—	.39	10	—	P-6	.85
23	5000	.00033	.003	—	10	—	—	P-7	.75
24	5000	.00035	—	—	10	—	—	P-8	.60

PARALLEL RESISTOR-CAPACITOR

Fig.	C ₁ (μF)	R ₁ (KΩ)	Cat. No.	List Price
25	56	47	PRC-1	\$.25
25	330	220	PRC-2	.25

PARALLEL RESISTOR-CAPACITOR (Continued)

Fig.	C ₁ (μF)	R ₁ (KΩ)	Cat. No.	List Price
25	470	470	PRC-3	\$.25
25	800	22	PRC-4	.25
25	330	150	PRC-5	.30
25	5000	68	PRC-6	.25

RETRACE SUPPRESSION

Fig.	C ₁ (μF)	C ₂ (μF)	R ₁ (KΩ)	R ₂ (KΩ)	Cat. No.	List Price
26	.005	.01	10	1000	RS-1	\$.70
26	.005	.002	10	1000	RS-2	.70
26	.01	.01	2.7	56	RS-3	.90
27	.01	.01	10	—	RS-4	.55

SOUND I-F

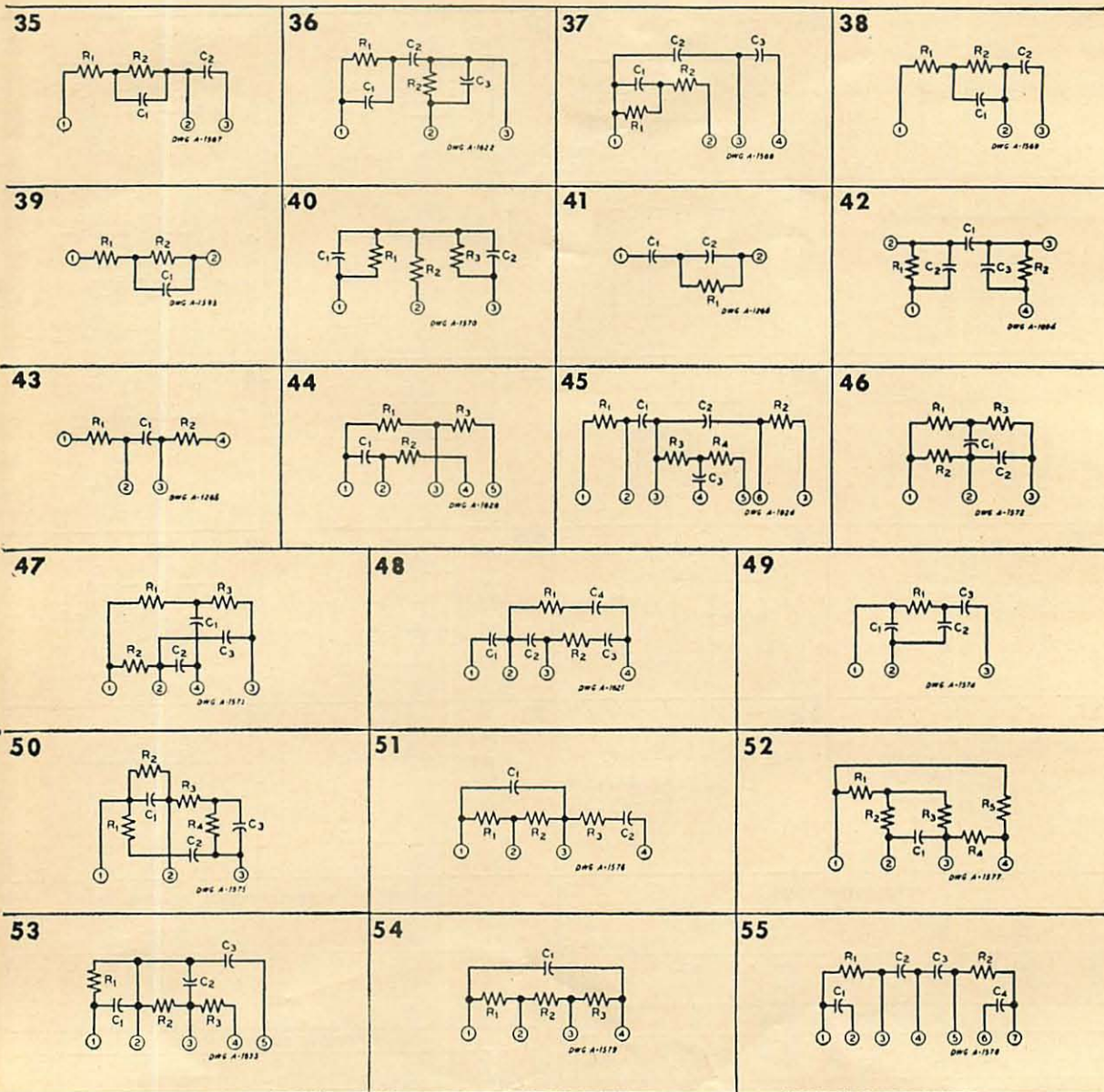
Fig.	C ₁ (μF)	C ₂ (μF)	C ₃ (μF)	R ₁ (Ω)	R ₂ (Ω)	R ₃ (Ω)	Cat. No.	List Price
28	5000	5000	—	150	220	—	SI-1	\$.90
28	5000	2000	—	330	27 K	—	SI-2	.60
29	470	5	5	47	33 K	—	SI-3	1.00
30	470	470	1500	470	2.2 Meg.	—	SI-4	.80

SYNC TAKEOFF

Fig.	C ₁ (μF)	C ₂ (μF)	C ₃ (μF)	R ₁ (KΩ)	R ₂ (KΩ)	R ₃ (KΩ)	Cat. No.	List Price
31	.01	.00027	25	10	330	2200	ST-1	\$1.25
31	.01	.00027	25	10	220	2200	ST-2	1.25
32	.01	.00027	25	220	2200	—	ST-3	1.25
31	.01	.00027	2.2	10	330	2200	ST-4	1.00
33	.001	.014	—	4700	220	—	ST-5	.70
34	.00047	.0008	10000	470	2200	—	ST-6	1.00

SPRAGUE CAPACITORS

BULPLATE and MULTI-COMP PRINTED CIRCUITS, continued



SYNC TAKEOFF (Continued)

Fig.	C ₁ (μF)	C ₂ (μF)	C ₃ (μF)	R ₁ (KΩ)	R ₂ (KΩ)	R ₃ (KΩ)	Cat. No.	List Price
35	.00068	.005	—	10	220	—	ST-7	\$.60
36	.00015	.01	25	470	2200	—	ST-8	1.25
37	.001	.001	3300	4700	200	—	ST-9	.65
38	.00068	.005	—	4.7	220	—	ST-10	.70
39	.00015	—	—	15	270	—	ST-11	.75
40	.00033	.00033	—	270	2200	560	ST-12	.65
41	.01	.00015	—	270	—	—	(Formerly PB-1) ST-13	.75

TRIODE COUPLING

Fig.	C ₁ (μF)	C ₂ , C ₃ (μF)	R ₁ (KΩ)	R ₂ (KΩ)	R ₃ (KΩ)	Cat. No.	List Price
42	.01	250	500	500	—	T-1	\$.75
42	.01	250	250	500	—	T-2	.75
42	.005	250	500	500	—	T-3	.70
42	.005	250	250	500	—	T-4	.70
43	.01	—	470	1000	—	T-5	.75
42	.01	500	500	500	—	T-6	.60
44	.01	—	150	1000	147	T-7	1.00

STONE COMPENSATION

Fig.	C ₁ (μF)	C ₂ (μF)	C ₃ (μF)	C ₄ (μF)	R ₁ (KΩ)	R ₂ (KΩ)	R ₃ (KΩ)	R ₄ , R ₅ (KΩ)	Cat. No.	List Price
45	4700	4700	100	—	100	100	470	1.0	TC-1	\$1.25
46	1500	1500	—	—	4700	4700	4700	—	TC-2	.60
47	3000	400	250	—	4700	4700	4700	—	TC-3	.75
48	200	100	4500	4500	50	50	—	—	TC-4	1.00
48	100	50	2500	2500	100	100	—	—	TC-5	1.00
49	1000	4000	10000	—	22	—	—	—	TC-6	.60
50	150	4700	2200	—	220	47	47	270	TC-7	1.10
51	150	10000	—	—	150	47	27	—	TC-8	.75
52	10	—	—	—	7.3	107	132	150	TC-9	1.00
53	390	2200	5000	—	47	10	10	—	TC-11	1.25
54	47	—	—	—	100	100	100	—	TC-12	.75
55	470	1000	.01	4700	220	22	—	—	TC-13	1.25

SPRAGUE CAPACITORS

BULPLATE and MULTI-COMP PRINTED CIRCUITS, continued

VERTICAL INTEGRATOR

Fig.	C ₁ (μF)	C ₂ (μF)	C ₃ (μF)	C ₄ (μF)	R ₁ (KΩ)	R ₂ (KΩ)	R ₃ (KΩ)	R ₄ (KΩ)	Cat. No.	List Price
56	.012	—	—	—	22	16.4	—	—	V-1/V-3	\$1.10
64	.01	.002	.005	.005	22	22	8.2	8.2	V-2	1.25
57	.012	—	—	—	16.4	—	—	—	V-4	1.10
58	.0047	.0047	—	—	22	10	—	—	V-5	1.00
65	.004	.01	.01	—	10	10	10	1000	V-6	.80
66	.00018	.00013	.0008	.0008	47	47	68	100	V-7	1.00
67	.01	.002	.005	.005	22	8.2	8.2	—	V-8	1.25
59	.0025	.00033	—	—	33	15	—	—	V-9	.60
68	.00015	.005	.004	.004	33	33	90	—	V-10	1.10
69	.00015	.005	.004	—	33	33	90	—	V-11	1.05
70	.05	.002	—	—	1000	1000	10	—	V-12	2.00

VERTICAL INTEGRATOR (Continued)

Fig.	C ₁ (μF)	C ₂ (μF)	C ₃ (μF)	C ₄ (μF)	C ₅ (μμF)	R ₁ (KΩ)	R ₂ (KΩ)	R ₃ (KΩ)	Cat. No.	List Price
71	.0051	.01	.0022	.001	470	47	33	82	V-13	\$.80
60	.001	—	—	—	—	70	—	—	V-14	.35
60	.001	—	—	—	—	90	—	—	V-15	.35
72	.001	.002	—	—	—	82	39	—	V-16	.75
61	.001	.004	.01	—	—	22	—	—	(Formerly PB-3) V-17	.75
62	.00025	.01	—	—	—	4700	—	—	(Formerly PB-4) V-18	1.00

VERTICAL FEEDBACK

Fig.	C ₁ (μF)	C ₂ (μF)	C ₃ (μF)	R ₁ (KΩ)	R ₂ (KΩ)	Cat. No.	List Price
63	.001	—	.002	100	—	VF-1	\$.75

SPRAGUE CAPACITORS

MICA TYPES

- Each Mica Capacitor Section Receives a Radio Frequency Test Before Molding
- Careful Selection and Electrical Grading of Raw Mica Assures Maximum Quality

- Section Foils on Foil Micas are Connected to Terminals through Special Low-resistance R-F Bonds
- R-F Current Tested for Peak Ratings After Impregnation and Molding

TYPE MS & 1FM MICAS



TYPE MS—SILVERED MICA
(Standard Capacity Tolerance ±5%)

MF	Cat. No.	List	MF	Cat. No.	List	MF	Cat. No.	List
500 WVDC, 1000 V Test			.000120	MS-312	\$.45	.001300	MS-213	\$ 1.25
.000005	MS-55	\$.45	.000130	MS-313	.45	.001500	MS-215	1.35
.000010	MS-41	.40	.000150	MS-315	.45	.001600	MS-216	1.35
.000012	MS-412	.40	.000160	MS-316	.45	.001800	MS-218	1.35
.000015	MS-415	.40	.000180	MS-318	.45	.002000	MS-220	1.35
.000018	MS-418	.40	.000200	MS-320	.45	.002200	MS-222	1.50
.000020	MS-42	.40	.000220	MS-322	.45	.002400	MS-224	1.80
.000022	MS-422	.40	.000240	MS-324	.55	.002500	MS-225	1.80
.000024	MS-424	.40	.000250	MS-325	.55	.002700	MS-227	1.90
.000025	MS-425	.40	.000270	MS-327	.55	.003000	MS-230	2.05
.000027	MS-427	.40	.000300	MS-330	.55	.003300	MS-233	2.05
.000030	MS-43	.40	.000330	MS-333	.55	.003600	MS-236	2.10
.000033	MS-433	.40	.000360	MS-336	.55	.003900	MS-239	2.15
.000036	MS-436	.40	.000390	MS-339	.65	.004000	MS-240	2.15
.000039	MS-439	.40	.000400	MS-340	.65	.004300	MS-243	2.15
.000040	MS-44	.40	.000430	MS-343	.65	.004700	MS-247	2.15
.000043	MS-443	.40	.000470	MS-347	.70	.005000	MS-250	2.25
.000044	MS-444	.40	.000500	MS-350	.70	.005100	MS-251	2.25
.000047	MS-447	.40	.000510	MS-351	.70	.005600	MS-256	2.50
.000050	MS-45	.40	.000560	MS-356	.75	.006000	MS-260	2.40
.000051	MS-451	.40	.000600	MS-360	.80	.006200	MS-262	2.60
.000056	MS-456	.40	.000620	MS-362	.80	300 WVDC, 600 V Test		
.000060	MS-46	.40	.000680	MS-368	.85	.006800	MS-268	2.60
.000062	MS-462	.40	.000700	MS-370	.85	.007000	MS-270	2.60
.000068	MS-468	.40	.000750	MS-375	.90	.007500	MS-275	2.80
.000070	MS-47	.40	.000800	MS-380	.95	.008000	MS-280	2.80
.000075	MS-475	.40	.000820	MS-382	.95	.008200	MS-282	2.80
.000082	MS-482	.40	.000900	MS-390	1.00	.008800	MS-288	2.80
.000091	MS-491	.40	.000910	MS-391	1.00	.009000	MS-290	3.10
.000100	MS-31	.40	.001000	MS-400	1.10	.009100	MS-291	3.10
.000110	MS-311	.45	.001100	MS-410	1.20	.009900	MS-299	3.10
			.001200	MS-420	1.30	.010000	MS-11	3.40

TYPE 1FM

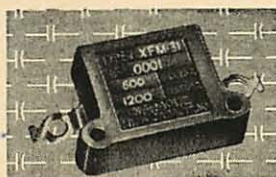
(Standard Capacity Tolerance ± 20%)

MF	Cat. No.	List	MF	Cat. No.	List	MF	Cat. No.	List
500 WVDC, 1000 V Test			.000150	1FM-315	\$.20	.001500	1FM-215	\$.30
.000010	1FM-41	\$.25	.000160	1FM-316	.20	.001600	1FM-216	.30
.000012	1FM-412	.25	.000180	1FM-318	.20	.001800	1FM-218	.40
.000015	1FM-415	.25	.000200	1FM-320	.20	.002000	1FM-220	.40
.000018	1FM-418	.25	.000220	1FM-322	.25	.002200	1FM-222	.40
.000020	1FM-42	.25	.000240	1FM-324	.25	.002400	1FM-224	.50
.000022	1FM-422	.25	.000250	1FM-325	.25	.002500	1FM-225	.50
.000024	1FM-424	.25	.000270	1FM-327	.25	.002700	1FM-227	.50
.000027	1FM-427	.25	.000300	1FM-330	.25	.003000	1FM-230	.50
.000030	1FM-43	.25	.000330	1FM-333	.25	.003300	1FM-233	.60
.000033	1FM-433	.25	.000350	1FM-335	.25	.003600	1FM-236	.60
.000036	1FM-436	.25	.000360	1FM-336	.25	.003900	1FM-239	.60
.000039	1FM-439	.25	.000390	1FM-339	.25	.004000	1FM-240	.55
.000040	1FM-44	.25	.000430	1FM-343	.25	.004300	1FM-243	.60
.000043	1FM-443	.20	.000470	1FM-347	.25	.004700	1FM-247	.60
.000044	1FM-444	.20	.000500	1FM-350	.25	.005000	1FM-250	.60
.000047	1FM-447	.20	.000510	1FM-351	.25	.005100	1FM-251	.60
.000050	1FM-45	.20	.000560	1FM-356	.25	.005600	1FM-256	.65
.000051	1FM-451	.20	.000600	1FM-360	.25	.006000	1FM-260	.65
.000056	1FM-456	.20	.000620	1FM-362	.25	.006200	1FM-262	.65
.000062	1FM-462	.20	.000680	1FM-368	.25	300 WVDC, 600 V Test		
.000068	1FM-468	.20	.000700	1FM-370	.25	.006800	1FM-268	.85
.000075	1FM-475	.20	.000750	1FM-375	.30	.007000	1FM-270	.85
.000082	1FM-482	.20	.000800	1FM-380	.30	.007500	1FM-275	.85
.000091	1FM-491	.20	.000820	1FM-382	.30	.008000	1FM-280	1.00
.000100	1FM-31	.20	.000900	1FM-390	.30	.008200	1FM-282	1.00
.000110	1FM-311	.20	.001000	1FM-400	.30	.009000	1FM-290	1.00
.000120	1FM-312	.20	.001100	1FM-410	.30	.009100	1FM-291	1.00
.000130	1FM-313	.20	.001200	1FM-420	.30	.010000	1FM-11	1.20

MS and 1FM Dimensions

Catalog Nos.	L x W x T	Catalog Nos.	L x W x T
MS-55 through MS-356	2 1/2 x 1 1/2 x 7/32	1FM-41 through 1FM-356	2 1/2 x 1 1/2 x 7/32
MS-36 through MS-236	2 3/8 x 2 3/8 x 7/32	1FM-362 through 1FM-236	2 3/8 x 2 3/8 x 7/32
MS-239 through MS-282	2 3/8 x 2 3/8 x 1/2	1FM-239 through 1FM-282	2 3/8 x 2 3/8 x 1/2
MS-29 through MS-11	1 3/8 x 5/8	1FM-29 through 1FM-11	1 3/8 x 5/8

TYPES XFM, YFM & ZFM



(Standard Capacity Tolerance ±10%)

MF	Cat. No.	List
XFM—600 WVDC, 1200 V TEST		
.00005	XFM-45	\$1.20
.0001	XFM-31	1.20
.00015	XFM-315	1.20
.0002	XFM-32	1.20
.00025	XFM-325	1.20
.0003	XFM-33	1.20
.0004	XFM-34	1.20
.0005	XFM-35	1.20
.001	XFM-21	1.20
.0015	XFM-215	1.20
.002	XFM-22	1.30
.0025	XFM-225	1.30
.003	XFM-23	1.45
.004	XFM-24	1.50
.005	XFM-25	1.55
.006	XFM-26	1.80
.007	XFM-27	1.85
.008	XFM-28	1.90
.01	XFM-11	2.15
.02	XFM-12	3.05
.03	XFM-13	4.45

Catalog Nos.	L x W x T
XFM-45 thru XFM-11	1 3/4 x 1 1/2 x 1 1/2
XFM-12 thru XFM-13	1 3/4 x 1 1/2 x 3/4

MF	Cat. No.	List
YFM—1200 WVDC, 2500 V TEST		
.00005	YFM-45	1.60
.0001	YFM-31	1.60
.0002	YFM-32	1.60
.00025	YFM-325	1.60
.0003	YFM-33	1.60
.0004	YFM-34	1.60
.0005	YFM-35	1.60
.001	YFM-21	1.80
.0015	YFM-215	2.30
.002	YFM-22	2.40
.0025	YFM-225	2.80
.003	YFM-23	3.05
.004	YFM-24	3.05
.005	YFM-25	3.30
.006	YFM-26	3.30
.007	YFM-27	3.45
.008	YFM-28	3.85
.01	YFM-11	5.10

Catalog Nos.	L x W x T
YFM-45 thru YFM-24	1 3/4 x 1 1/2 x 1 1/2
YFM-25 thru YFM-11	1 3/4 x 1 1/2 x 3/4

MF	Cat. No.	List
ZFM—2500 WVDC, 5000 V TEST		
.00005	ZFM-45	1.90
.0001	ZFM-31	1.90
.0002	ZFM-32	1.90
.00025	ZFM-325	2.20
.0003	ZFM-33	2.25
.0004	ZFM-34	2.30
.0005	ZFM-35	2.40
.001	ZFM-21	2.80
.0015	ZFM-215	3.55
.002	ZFM-22	4.15
.003	ZFM-23	4.90
.004	ZFM-24	5.65
.005	ZFM-25	6.40

Catalog Nos.	L x W x T
ZFM-45 thru ZFM-22	1 3/4 x 1 1/2 x 1 1/2
ZFM-23 thru ZFM-25	1 3/4 x 1 1/2 x 3/4

TYPES 7FM, 8FM & 9FM



(Standard Capacity Tolerance ±10%)

MF	Cat. No.	List
7FM—600 WVDC, 1200 V TEST		
.00005	7FM-45	\$1.45
.0001	7FM-31	1.45
.00015	7FM-315	1.45
.0002	7FM-32	1.45
.00025	7FM-325	1.45
.0003	7FM-33	1.45
.0004	7FM-34	1.45
.0005	7FM-35	1.45
.001	7FM-21	1.65
.0015	7FM-215	1.70
.002	7FM-22	1.85
.0025	7FM-225	2.00
.003	7FM-23	2.10
.004	7FM-24	2.10
.005	7FM-25	2.20
.006	7FM-26	2.45
.008	7FM-28	2.80
.01	7FM-11	3.05
.015	7FM-115	3.55
.02	7FM-12	4.55
.03	7FM-13	5.85
.04	7FM-14	7.10
.05	7FM-15	8.05
.06	7FM-16	8.05

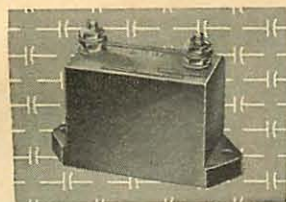
Catalog Nos.	L x W x T
7FM-45 thru 7FM-13	1 3/4 x 1 1/2 x 7/8
7FM-14 thru 7FM-16	1 3/4 x 1 1/2 x 3/4

MF	Cat. No.	List
8FM—1200 WVDC, 2500 V TEST		
.00005	8FM-45	1.60
.0001	8FM-31	1.60
.00015	8FM-315	1.60
.0002	8FM-32	1.60
.00025	8FM-325	1.60
.0003	8FM-33	1.60
.0004	8FM-34	1.60
.0005	8FM-35	1.60
.001	8FM-21	1.90
.0015	8FM-215	2.50
.002	8FM-22	2.80
.0025	8FM-225	3.30
.003	8FM-23	3.45
.004	8FM-24	3.10

SPRAGUE CAPACITORS

MICA CAPACITORS, continued

TYPES 1MC & 2MC



(Standard Capacity Tolerance $\pm 5\%$)

MF VAC Peak Cat. No. List

TYPE 1MC

Dimensions—2" L. x 1 1/4" W. x 1 1/2" H.

MF	VAC Peak	Cat. No.	List
.00005	3000	1MC-45	\$12.60
.0001	3000	1MC-31	12.60
.00015	3000	1MC-315	12.60
.0002	3000	1MC-32	12.60
.00025	3000	1MC-325	12.60
.0003	3000	1MC-33	12.60
.0004	3000	1MC-34	12.60
.0005	3000	1MC-35	12.60
.0006	3000	1MC-36	12.60
.0007	3000	1MC-37	12.60
.0008	3000	1MC-38	12.60
.001	3000	1MC-21	12.60
.0015	3000	1MC-215	12.60
.002	3000	1MC-22	12.60
.003	2000	1MC-23	12.60
.004	2000	1MC-24	12.60
.005	2000	1MC-25	12.60
.006	2000	1MC-26	12.60
.007	2000	1MC-27	12.60
.008	1500	1MC-28	12.60
.01	1000	1MC-11	12.60
.015	1000	1MC-115	12.60
.02	1000	1MC-12	14.30
.03	500	1MC-13	14.30
.04	500	1MC-14	14.30
.05	250	1MC-15	14.30
.1	250	1MC-1	15.10

TYPE 2MC

Dimensions—2 1/4" L. x 1 1/4" W. x 1 1/4" H.

MF	VAC Peak	Cat. No.	List
.00005	5000	2MC-45	17.30
.0001	5000	2MC-31	17.30
.00015	5000	2MC-315	17.30
.0002	5000	2MC-32	17.30
.00025	5000	2MC-325	17.30
.0003	5000	2MC-33	17.30
.0004	5000	2MC-34	17.30
.0005	5000	2MC-35	17.30
.0006	5000	2MC-36	17.30
.0007	5000	2MC-37	17.30
.0008	5000	2MC-38	17.30
.001	5000	2MC-21	17.30
.0015	5000	2MC-215	17.30
.002	5000	2MC-22	17.30
.003	3000	2MC-23	17.30
.004	3000	2MC-24	17.30
.005	3000	2MC-25	17.30
.006	3000	2MC-26	17.30
.007	3000	2MC-27	17.30
.008	2000	2MC-28	17.30
.01	2000	2MC-11	17.30
.015	2000	2MC-115	17.30
.02	2000	2MC-12	17.30
.03	1500	2MC-13	17.30
.04	1500	2MC-14	17.30
.05	1500	2MC-15	17.30
.06	1000	2MC-16	18.60
.07	1000	2MC-17	18.60
.08	500	2MC-18	19.20
.1	500	2MC-1	19.20

TYPES 1CC, 2CC, 3CC & 4CC

(Standard Capacity Tolerance $\pm 5\%$)

MF	Cat. No.	List
TYPE 1CC		
Dimensions—2 1/4" D. x 2 1/2" H.		
6000 VAC Peak		
.00005	1CC-45	\$38.20
.000075	1CC-475	40.00
.0001	1CC-31	40.60
.00015	1CC-315	40.60
.0002	1CC-32	40.60
.00025	1CC-325	40.60
.0003	1CC-33	44.35
.0004	1CC-34	44.35
.0005	1CC-35	46.65
.0006	1CC-36	46.65
.0007	1CC-37	46.65
.0008	1CC-38	46.65
.001	1CC-21	46.65
.0015	1CC-215	48.90
.002	1CC-22	48.90
.003	1CC-23	50.60
.004	1CC-24	50.60

MF	Cat. No.	List
4000 VAC Peak		
.005	1CC-25	50.60
.006	1CC-26	51.45
.007	1CC-27	51.45
.008	1CC-28	51.45
.01	1CC-11	51.45

MF	Cat. No.	List
3000 VAC Peak		
.015	1CC-115	51.45

MF	Cat. No.	List
2000 VAC Peak		
.02	1CC-12	51.45
.025	1CC-125	51.80

MF	Cat. No.	List
1500 VAC Peak		
.03	1CC-13	55.75
.04	1CC-14	58.50
.05	1CC-15	60.75
.06	1CC-16	62.80

MF	Cat. No.	List
1000 VAC Peak		
.07	1CC-17	64.25
.08	1CC-18	65.75
.1	1CC-1	68.50

MF	Cat. No.	List
TYPE 2CC		
Dimensions—3 1/2" D. x 3" H.		
10,000 VAC Peak		
.00005	2CC-45	65.55
.000075	2CC-475	65.55
.0001	2CC-31	65.55
.00015	2CC-315	65.55
.0002	2CC-32	65.55
.0003	2CC-33	65.55
.0004	2CC-34	65.55
.0005	2CC-35	65.55
.0006	2CC-36	65.55
.0007	2CC-37	65.55
.0008	2CC-38	65.55
.001	2CC-21	65.55
.0015	2CC-215	65.55
.002	2CC-22	65.55

MF	Cat. No.	List
8000 VAC Peak		
.003	2CC-23	65.55
.004	2CC-24	65.55

MF	Cat. No.	List
6000 VAC Peak		
.005	2CC-25	65.55

MF	Cat. No.	List
5000 VAC Peak		
.006	2CC-26	69.15
.007	2CC-27	69.15
.008	2CC-28	69.15
.01	2CC-11	69.15

MF	Cat. No.	List
4000 VAC Peak		
.025	2CC-125	72.00

MF	Cat. No.	List
3000 VAC Peak		
.02	2CC-12	69.15
.025	2CC-125	72.00

MF	Cat. No.	List
2000 VAC Peak		
.03	2CC-13	73.50
.04	2CC-14	77.80
.05	2CC-15	80.75
.06	2CC-16	83.00

MF	Cat. No.	List
1500 VAC Peak		
.07	2CC-17	85.00
.08	2CC-18	86.50
.1	2CC-1	90.00

MF	Cat. No.	List
1000 VAC Peak		
.07	2CC-17	164.00
.08	2CC-18	172.00
.1	2CC-1	182.00

MF	Cat. No.	List
4000 VAC Peak		
.015	2CC-115	\$ 69.15
3000 VAC Peak		
.02	2CC-12	69.15
.025	2CC-125	72.00
2000 VAC Peak		
.03	2CC-13	73.50
.04	2CC-14	77.80
.05	2CC-15	80.75
.06	2CC-16	83.00
1500 VAC Peak		
.07	2CC-17	85.00
.08	2CC-18	86.50
.1	2CC-1	90.00

MF	Cat. No.	List
TYPE 3CC		
Dimensions—5" D. x 4" H.		
20,000 VAC Peak		
.00005	3CC-45	110.90
.000075	3CC-475	121.00
.0001	3CC-31	121.00
.00015	3CC-315	131.10
.0002	3CC-32	131.10
.0003	3CC-33	131.10
.0004	3CC-34	137.15
.0005	3CC-35	137.15
.0006	3CC-36	137.15
.0007	3CC-37	137.15
.0008	3CC-38	137.15
.001	3CC-21	141.15

MF	Cat. No.	List
15,000 VAC Peak		
.0015	3CC-215	143.20
.002	3CC-22	143.20

MF	Cat. No.	List
12,000 VAC Peak		
.003	3CC-23	151.25
.004	3CC-24	151.25

MF	Cat. No.	List
10,000 VAC Peak		
.005	3CC-25	151.25
.006	3CC-26	151.25
.007	3CC-27	151.25
.008	3CC-28	151.25

MF	Cat. No.	List
8000 VAC Peak		
.01	3CC-11	151.25

MF	Cat. No.	List
5000 VAC Peak		
.015	3CC-115	151.25
.02	3CC-12	151.25

MF	Cat. No.	List
3000 VAC Peak		
.025	3CC-125	151.25
.03	3CC-13	151.25
.04	3CC-14	151.25
.05	3CC-15	151.25
.06	3CC-16	158.50

MF	Cat. No.	List
2000 VAC Peak		
.07	3CC-17	164.00
.08	3CC-18	172.00
.1	3CC-1	182.00

MF	Cat. No.	List
1500 VAC Peak		
.07	3CC-17	300.00

MF	Cat. No.	List
1000 VAC Peak		
.07	3CC-17	300.00

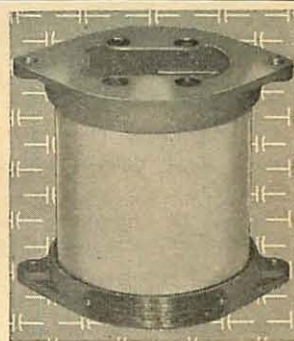
MF	Cat. No.	List
8000 VAC Peak		
.07	3CC-17	300.00

MF	Cat. No.	List
6000 VAC Peak		
.07	3CC-17	300.00

MF	Cat. No.	List
4000 VAC Peak		
.07	3CC-17	300.00

MF	Cat. No.	List
3000 VAC Peak		
.07	3CC-17	300.00

MF	Cat. No.	List
2000 VAC Peak		
.07	3CC-17	300.00



MF Cat. No. List

MF	Cat. No.	List
TYPE 4CC		
Dimensions—5" D. x 5 1/4" H.		
30,000 VAC Peak		
.0001	4CC-31	\$210.30
.00015	4CC-315	210.30
.0002	4CC-32	221.16
.0003	4CC-33	221.16
.0004	4CC-34	221.16
.0005	4CC-35	221.16
.0006	4CC-36	221.16
.0007	4CC-37	221.16
.0008	4CC-38	221.16
.001	4CC-21	229.10

MF	Cat. No.	List
25,000 VAC Peak		
.0015	4CC-215	229.10

MF	Cat. No.	List
20,000 VAC Peak		
.002	4CC-22	229.10
.003	4CC-23	229.10

MF	Cat. No.	List
15,000 VAC Peak		
.004	4CC-24	234.35
.005	4CC-25	242.00
.006	4CC-26	252.25
.007	4CC-27	260.00

MF	Cat. No.	List
12,000 VAC Peak		
.008	4CC-28	260.00
.009	4CC-29	260.00

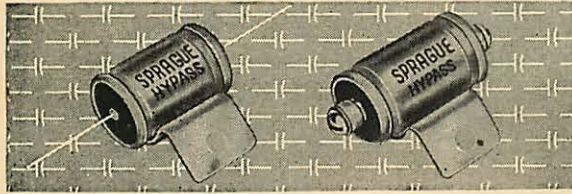
MF	Cat. No.	List
10,000 VAC Peak		
.01	4CC-11	272.44

MF	Cat. No.	List
8000 VAC Peak		
.015	4CC-115	272.44

MF	Cat. No.	List
6000 VAC Peak		
.02		

SPRAGUE FILTERS

HYPASS® CAPACITORS

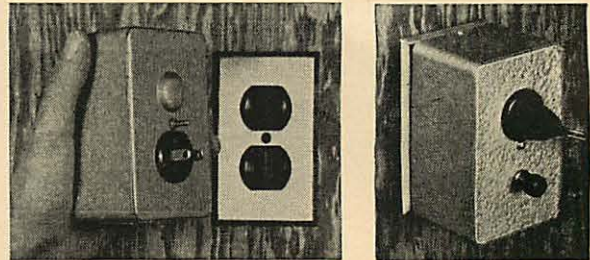


- Exclusive Sprague 3-terminal Network Feed-thru Capacitors
- Bypass V-H-F Currents Where Ordinary Capacitors are ineffective
- Suppress TVI from Short-wave Transmitters, Diathermy Machines, Electronic Heating Apparatus, etc.
- Eliminate Interference caused by Line-conducted Radiation Between Neighboring TV Sets
- Install Leads in Series with Circuit Being Filtered and Ground the Case

μF	Amps.	WVDC	Dia. x Length	Cat. No.	List
.5	40	50	1 x 1 1/16	*48P18	\$3.80
.1	20	250(VAC)	1 1/16 x 1 1/16	*48P9	2.60
.1	20	600	1 1/16 x 1 1/16	*48P8	2.60
.002	15	600	1/4 x 1 5/8	46P12	2.15
.005	15	600	1/4 x 1 5/8	46P8	2.15
.01	20	600	7/16 x 1 1/4	47P6	2.35
.1	20	600	1 1/16 x 1 1/16	*†80P3	2.95
.005	20	1000	7/16 x 1 1/4	47P12	2.40
.01	20	1000	7/16 x 1 1/2	47P13	2.60
.005	20	2500	1 x 1 1/16	47P14	2.90
.01	20	2500	1 x 1 1/16	47P15	3.10
.002	20	5000	1 x 1 1/16	47P16	3.20

*Has female screw terminals
Bulkhead mounting.

TYPE F-400 MIRACLE FILTEROL®

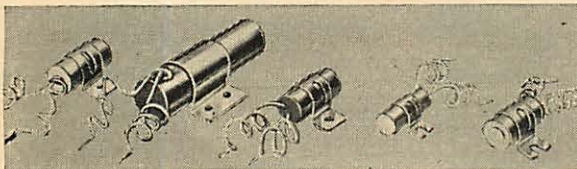


A LINE FILTER THAT REALLY WORKS!

- Effectively Suppresses Radio Interference by Filtering Power Lines of Receivers and Appliances
- Maximum Noise Eliminating Efficiency because of Practically Zero Length of Ground Lead
- Plugs into Standard Duplex Wall Outlet—Captive Screw Fastens Filterol F-400 to Outlet for Safe, Secure Mounting
- Direct Wall-Mounting Provides Neat Installation—No Unsightly Cord—Receiver or Appliance Plugs into Standard Outlet on Face of F-400
- Will Also Operate at Slightly Reduced Efficiency in Older Homes where Wiring is of Knob and Tube or 2-Conductor Non-Metallic Sheathed Cable Type by Using the External Grounding Post Provided for this Purpose
- Handsomely Finished in Tan Hammerloid Baked Enamel
- Rated at 5 Amperes, 125 Volts AC or DC

TYPE F-400 FILTEROL.....\$7.45 net

TYPE IF FILTERS



IF-15 IF-11 IF-21 IF-S1 IF-37

IF-15—TRIPLE-SECTION FILTER for small motor-operated devices such as fans, drills, etc. designed to prevent shocks from discharge of filter capacitors.

IF-11—DUAL HIGH-CAPACITY FILTER designed for use on motors over 1 hp up to 220 volts ac-dc. Also used on high-current arcing devices.

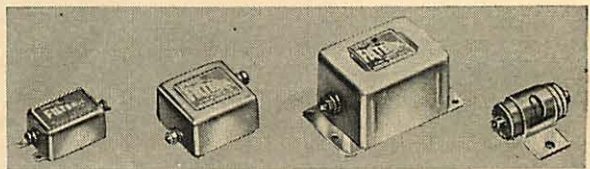
IF-21—COMPACT DUAL FILTER for use on fractional horsepower motors with case grounded to motor frame. Also used across line terminals of motors.

IF-S1—SINGLE SECTION 2-LEAD FILTER for use across make-and-break contacts, such as thermostats, circuit breakers, etc.

IF-37—3-SECTION DELTA-CONNECTED FILTER especially designed for fluorescent fixtures. Also used on governor-type motors. UL approved.

Cat. No.	Volts AC or DC	Dia. x Length	List
IF-15	220	1 x 2 3/16	\$2.60
IF-11	220	1 3/8 x 5/4	7.80
IF-21	220	1 x 2 3/16	1.75
IF-S1	220	3/4 x 2 1/16	1.15
IF-37	220	1 x 2 3/16	2.25

FILTEROL® FILTERS



FILTEROL 1 FILTEROL 2 FILTEROL 3 FILTEROL 4

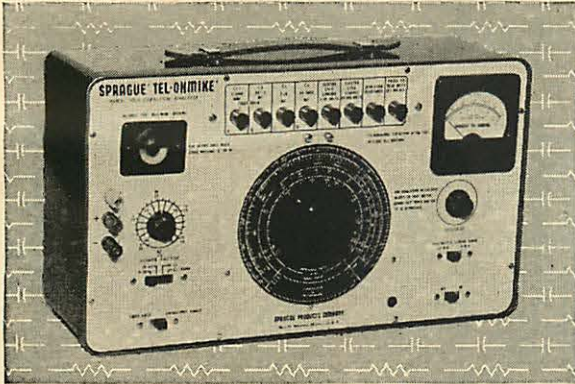
Filterol Types 1, 2, and 3—Designed for connection in series with power supply lines to interference-producing devices . . . A 3-terminal network with the case as one terminal . . . The selected filter should have a rating higher than the continuous operating current of the offending device . . . A single Filterol connected to the high side of the line is usually sufficient . . . In severe cases a Filterol in each leg of the power line may be necessary . . . For three or four-wire systems, a Filterol in each wire is necessary.

Filterol Type 4—A new, exclusive Sprague development incorporating a Sprague HYPASS® Capacitor . . . Provides exceptionally high attenuation at frequencies above 5 megacycles . . . Intended for small devices with continuous current ratings up to 20 amperes.

Cat. No.	Amps.	Volts AC or DC	Size	List
Filterol 1	1	115	7/8 x 1 1/4 x 1 3/4	\$13.50
Filterol 2	10	115	1 1/8 x 2 x 2	14.80
Filterol 3	35	115	1 7/8 x 2 7/8 x 3 1/8	27.40
Filterol 4	20	115	1" dia. x 1 1/16" long	3.0

SPRAGUE TEST EQUIPMENT

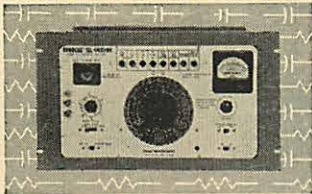
TO-5 TEL-OHMIKE* CAPACITOR ANALYZER



Modern service shops find the TEL-OHMIKE a must. The TO-5 is a moderately priced instrument with laboratory quality and accuracy — the highest accuracy of any instrument of its type available to the service trade!

MODEL TO-5RM FOR RACK MOUNTING

Electrically identical with the standard instrument, Model TO-5RM has a standard 19" wide x 10½" high panel so that it can be mounted in standard relay racks.



Model TO-5RM \$93.90 net
*Trademark

- **CAPACITANCE BRIDGE** measures up to 2000 mf in five overlapping ranges. The special 1 mmf to 100 mmf range is exclusive with the Tel-Ohmike.
- **INSULATION RESISTANCE** directly read on large meter up to 20,000 megohms for papers, ceramics, and micas. No guessing with neon lamps.
- **LEAKAGE CURRENT** of electrolytics measured directly on meter, with exact rated voltage up to 600v. applied from continuously adjustable power supply. Two ranges: 0-6-60 ma. No guessing on eye-width or counting lamp blinks!
- **POWER FACTOR** of electrolytics measured by Wien Bridge up to 55% in three ranges.
- **TURNS RATIO SCALE** to measure turns ratio of power and audio transformers.
- **MAGIC-EYE TUBE** simplifies bridge balancing for capacitance and power factor measurements.
- **PUSH-BUTTONS** for instant range selection, also discharge capacitors for safety upon release.
- **MODERN CASE** finished in two-tone gray; measures 8⅞" high, 14⅝" wide, 6⅞" deep. Weight only 12½ pounds.

MODEL TO-5.....115 VAC/50-60 cy.....\$83.90 net
Model TO-5X.....115-230 V/25-60 cy.....\$89.90 net

LF-1 TRANSIMULATOR®

SPEEDS DESIGN OF TRANSISTOR CIRCUITS BY ELIMINATING BREADBOARD LAYOUT

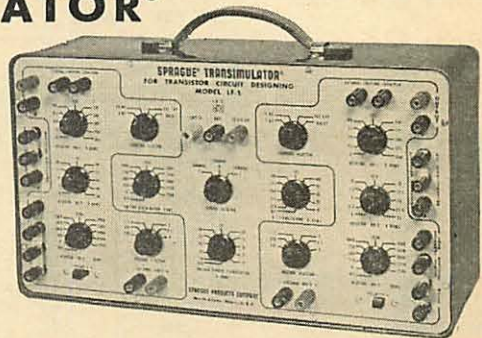
Bring transistor circuits to life in a matter of minutes with the Sprague LF-1 Transimulator. This new instrument lets you simulate any amplifier stage, a-c or direct-coupled, short of high power audio output; also multivibrator, switching, phasing, push-pull, Class A and B, and many others using cross-coupled Transimulators . . . whether the circuit is common or grounded emitter, base, or collector . . . whether the transistors are PNP, NPN, or Surface Barrier. You can simulate circuits stage-by-stage for cascade operation . . . or use a separate Transimulator for each stage to get simultaneous multi-stage operation.

Bring Circuit Diagrams To Life In Minutes

Everything you need for RC amplifier circuits is built right into the LF-1, including coupling capacitors . . . bias and load resistors . . . battery voltage supplies . . . Base Collector—Voltage Divider stabilization circuits . . . 5-way binding posts for transformer coupling and metering. Whether you're designing audio circuits or switching circuits, you'll get a true picture of operating parameters minutes after you've drawn the circuit diagram . . . without wasting valuable time with breadboard and soldering gun.

Pays For Itself In A Matter Of Weeks

An ideal laboratory instrument, Transimulators are inexpensive enough to justify several on every bench. You can even use the LF-1 to test transistors *in the circuit* . . . the only real proof of design parameters. And a complete step-by-step instruction manual makes operation fast, simple, and easy.



FEATURES OF THE LF-1 TRANSIMULATOR

- **TRANSISTORS**—PNP and NPN Junction, and Surface Barrier.
- **CIRCUITS**—Common or Grounded Emitter, Base, Collector.
- **RANGE**—Audio, up to 100 kc.
- **TRANSISTOR POWER**—Through medium power audio output.
- **BATTERY SUPPLY**—Separate bias and load. 1.5, 3, 4.5, 6 volts d-c. Polarity Reversing Switch.
- **COUPLING**—2 μf and 20 μf Direct, and Ext. C. posts, on both Input and Output.
- **BIAS RESISTANCE**—Up to 555,000 ohms continuously variable.
- **LOAD RESISTANCE**—Up to 277,500 ohms continuously variable.
- **EMITTER RESISTANCE**—Up to 2,500 ohms variable. Series resistor and bypass capacitor can be added.
- **BASE COLLECTOR STABILITY**—Up to 250,000 ohms variable. Series resistor and bypass capacitor can be added.
- **VOLTAGE DIVIDER STABILITY**—Up to 50,000 ohms variable.
- **5-WAY BINDING POSTS**—For meters, transformer coupling, external supply voltage, degeneration, bypass, coupling, signal input and output, almost any connection required.

\$79.50 NET
LESS BATTERIES