



TX221, TX221S*

A Precision Power Resistor In TO220 Configuration
For Current Sense Applications

FEATURES

- Thermal EMF: 0.05 μ V/°C Typical.
- Power: 8 watts, or 3 amps, chassis mounted (6x4x2 heat sink)
1.5 watts or 3 amps in free air @ 25°C
- Load Life Stability: \pm 0.05% maximum Δ R at rated power and temperature for 2000 hours
- Operating temperature range: -55°C to +150°C
- Non-Inductive
- RoHS compliant termination available (TX221T and TX221ST)
- Four-lead Kelvin connection.
- * S = Surface Mount



Model	Resistance Range	Available Limit			Power Rating @ 25°C	Maximum Voltage
		Tolerances	Resistance Range	TCR		
TX221 or TX221S	0.5 Ω to 500 Ω	\pm 0.01% \pm 0.02% \pm 0.05%	10 Ω - 500 Ω 1 Ω - 500 Ω 0.5 Ω - 500 Ω	Typical \pm 2 ppm/°C Maximum \pm 5ppm/°C	8 watts chassis mounted 1.5 watts: free air Limited to 3 Amperes	$\sqrt{P \times R}$ Up to 300 Volts

DIMENSIONS TX221S (NOT AT SCALE)

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POWER DERATING CURVE

Ambient Temperature (°C)	Percent of Rated Power
-75	100
-50	100
-25	100
0	100
25	100
50	83.3
75	66.7
100	50.0
125	33.3
150	0