

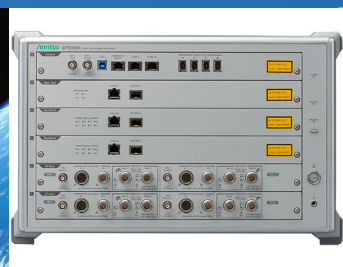
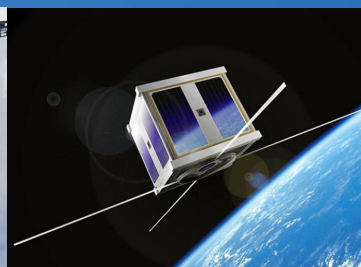
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of VCOs & PLLs.

2020/21

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PRODUCT SELECTION GUIDE

Voltage Controlled Oscillators | Phase-Locked Loops | 40 MHz - 15 GHz



AS9100D / ISO 9001:2015

Microwave
Radio

Satellite
Communications

Test &
Measurement

Military
Communications

Defense/Aerospace

VCO & PLL Outlines

VCO & PLL Outlines

MINI-XX

PACKAGE	H	PACKAGE	H
MINI-14S	0.220	MINI-16	0.220
MINI-14S-LOW	0.160	MINI-16-LOW	0.160
MINI-14S-L	0.130	MINI-16-L	0.130
MINI-14S-UL	0.100	MINI-16-UL	0.100
		MINI-16-EL	0.085

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
P1 Vt
P2 RF OUT
P3 Vcc
REST GROUND

SDRO

PACKAGE	H
SDRO	0.220

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
P1 Vt
P2 RF OUT
P3 Vcc
REST GROUND

VCO-24H

PACKAGE	H
VCO-24H	0.220

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
P1 RF OUTPUT
P2-12 GROUND
P13 Vcc
P14-16 GROUND
P17 Vtune
P18-24 GROUND

RFS-V12N

INCH	MM
A	6.00 15.00
B	5.75 14.40
C	0.135 MAX 3.40 MAX
D	0.032 0.78
E	0.025 0.63
F	0.086 2.00

PIN OUT DETAILS
P1 GROUND
P2 GROUND
P3 GROUND
P4 NC
P5 GROUND
P6 GROUND
P7 VCC/VCO
P8 GROUND
P9 GROUND
P10 RF OUT
P11 VCO-PLL
P12 LOCK DETECT

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
P1 GROUND
P2 GROUND
P3 GROUND
P4 NC
P5 GROUND
P6 GROUND
P7 VCC/VCO
P8 GROUND
P9 GROUND
P10 RF OUT
P11 VCO-PLL
P12 LOCK DETECT

SUB-L

PACKAGE	H
SUB	0.110
SUB-L	0.080

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
P1 Vt
P2 RF Out
P3 Vcc
REST GROUND

PLL-24

PACKAGE	H
PLL-24H	0.220
PLL-24	0.140

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
1 RF OUT
5 REF IN
7 CLOCK
8 DATA
10 LOAD ENABLE
12 LOCK DETECT
13 Vcc
17 N/C
REST GROUND

USSP

PACKAGE	H
USSP	0.220

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
P1 Vt
P2 RF OUT
P3 Vcc
REST GROUND

PLL-V12N

PACKAGE	H
PLL-V12N	0.220

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
1 Vcc(VCO)
3 RF OUT
5 MUX OUT
6 Vcc(CHIP)
7 CLOCK
8 DATA
9 ENABLE
10 REF IN
REST GROUND

FOR SFS MODELS:
P7, P8 AND P9 SHALL BE N/C
P5 PROGRAMMED AS DIGITAL LOCK DETECT

ZMX-14-SM

PACKAGE	H
ZMX-14-SM	0.220

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
P1 Vt
P2 RF OUT
P3 Vcc
REST GROUND

SFS-L1

PACKAGE	H
SFS-L1	0.220

RECOMMENDED FOOTPRINT
SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

PIN CONFIGURATION
6 RF OUT
11 LOCK DETECT
12 N/C
13 N/C
14 N/C
17 REF IN
23 N/C
24 Vcc CHIP
26 Vcc VCO
REST GROUND