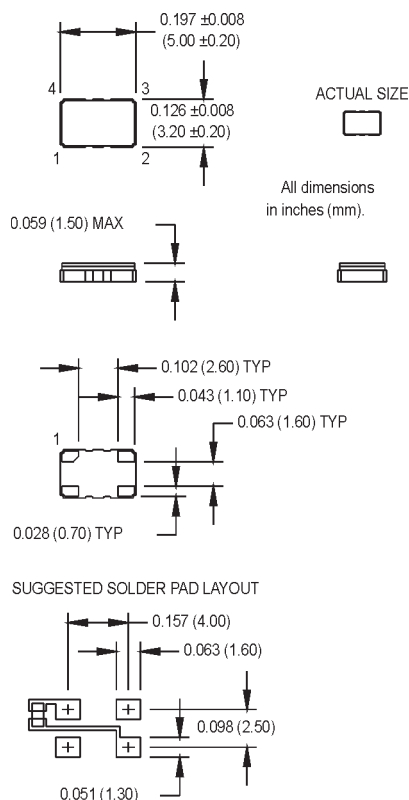


M6027 & M6028 Series

3.2 x 5 mm, 3.0 Volt, Clipped Sinewave, TCXO/TCVCXO

- Ultra-miniature size
- Ideal for handheld and portable devices



Pin Connections

PIN	FUNCTION
1	N/C or Control Voltage
2	Ground/Case
3	Output
4	+Vdd

Ordering Information

M6027/M6028	1	H	F	S	N	00.0000 MHz
Product Series						
M6027 = TCXO						
M6028 = TCVCXO						
Temperature Range						
1: 0°C to +70°C						
6: -20°C to +70°C						
8: 0°C to +50°C						
A: -10°C to +60°C						
F: -30°C to +75°C						
Stability						
H: ±2.5 ppm						
L: ±5 ppm						
Frequency Control						
F: Fixed for TCXO						
V: Voltage Tuned for TCVCXO						
Output Type						
S: Clipped Sinewave						
Package/Lead Configurations						
N: Leadless						
Frequency (customer specified)						

M6027Sxxx & M6028Sxxx - Contact factory for datasheets.

	PARAMETER	SYMBOL	UNITS
Electrical Specifications	Frequency Range	F	12.6 to 26 MHz
	Frequency Stability Over Operating Temperature	?F/F	(See Ordering Information)
	Frequency Vs. Supply Voltage		±0.3 Max. ppm
	Frequency Vs. Aging		±1.0/year max @ +25°C Ppm
	Input Voltage	V _{dd}	+3.0 ±5% V
	Input Current	I _{dd}	2 Max. mA
	Output Type		Clipped Sinewave
	Output Level		0.8 pk-pk min. V
	Output Load		10K 10pF
	Frequency Tuning		±5 to ±15 over control voltage range ppm (M6028 only)
	Control Voltage	V _c	1.5 ±1.0 V (M6028 only)
	Phase Noise (Typical)	10 Hz -80	100 Hz 1 kHz 10 kHz -110 -130 -145 dBc/Hz
Environmental	Mechanical Shock		Per MIL-STD-202, Method 213, Condition C
	Vibration		Per MIL-STD-202, Method 201 & 204
	Max Soldering Conditions		See Solder Profile, Figure 1
	Hermeticity		Per MIL-STD-202, Method 112 (1x10 ⁻⁸ atm.cc/s of helium)
	Solderability		Per EIAJ-STD-002

Clipped Sinewave Load – see load circuit diagram #7

MtronPTI Lead Free Solder Profile

