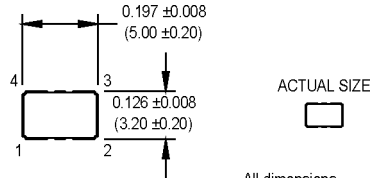


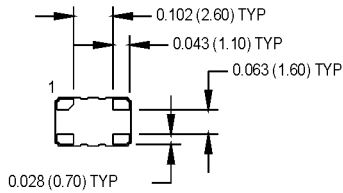
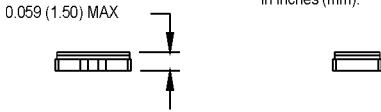
M6027 & M6028 Series

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

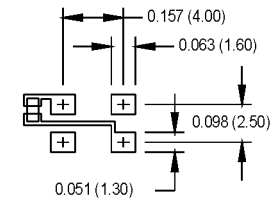
- Ultra-miniature size
- Ideal for handheld and portable devices



All dimensions in inches (mm).



SUGGESTED SOLDER PAD LAYOUT



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
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)								

	PARAMETER	Symbol					Units
	Electrical Specifications	Frequency Range	F	12.6 to 26			
Frequency Stability		$\Delta F/F$	(See Ordering Information)				
Over Operating Temperature			±0.3 max.				ppm
Frequency vs. Supply Voltage			±1.0/year max @ +25°C				ppm
Frequency vs. Aging			2 max.				ppm
Input Voltage		Vdd	+3.0 ±5%				V
Input Current		Idd	Clipped Sinewave				mA
Output Type			0.8 pk-pk min.				V
Output Level			10K 10 pF				
Output Load			±5 to ±15 over control voltage range				ppm (M6028 only)
Frequency Tuning			1.5 ±1.0				V (M6028 only)
Control Voltage		Vc					
Phase Noise (Typical)		10 Hz	100 Hz	1 kHz	10 kHz	dBc/Hz	
	-80	-110	-130	-145			
Environmental	Mechanical Shock		Per MIL-STD-202, Method 213, Condition C				
	Vibration		Per MIL-STD-202, Method 201 & 204				
	Wave Solder Conditions		See "Figure 2" on page 147				
	Hermeticity		Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm.cc/s of helium)				
	Solderability		Per EIAJ-STD-002				

MtronPTI Lead Free Solder Profile



MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.