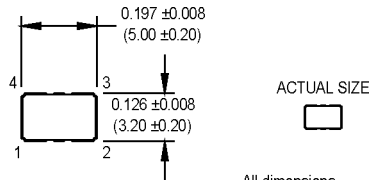


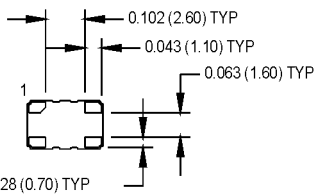
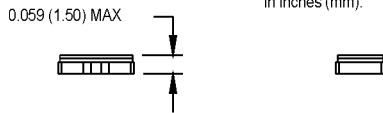
M6027 & M6028 Series

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

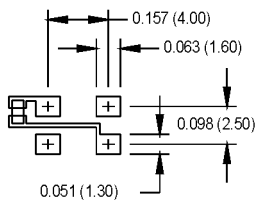
- Ultra-miniature size
- Ideal for handheld and portable devices



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							
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)							

	PARAMETER	Symbol					Units
Electrical Specifications	Frequency Range	F	12.6 to 26				MHz
	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	V _{dd}	+3.0 ±5%				V
	Input Current	I _{dd}	10K II 10 pF				mA
	Output Type		Clipped Sinewave				
	Output Level		0.8 pk-pk min.				V
	Output Load		±5 to ±15 over control voltage range				ppm (M6028 only)
	Frequency Tuning		1.5 ±1.0				V (M6028 only)
	Control Voltage	V _c					
	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

