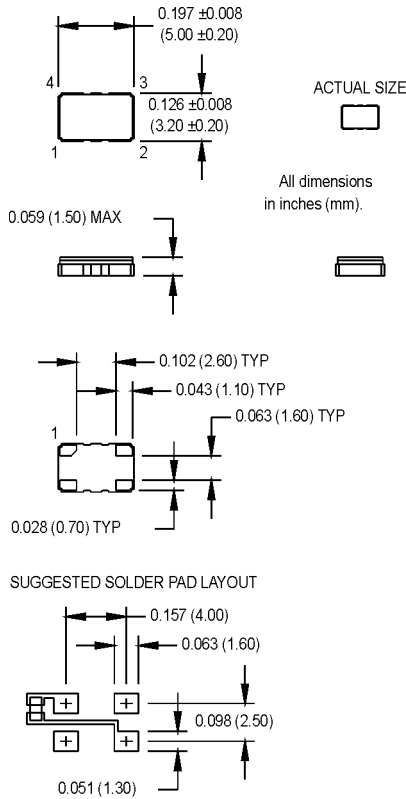


M6027 & M6028 Series

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)						

	PARAMETER	Symbol	Units			
Electrical Specifications	Frequency Range	F	12.6 to 26			
	Frequency Stability	ΔF/F				
	Over Operating Temperature		(See Ordering Information)			
	Frequency vs. Supply Voltage		±0.3 max.			
	Frequency vs. Aging		±1.0/year max @ +25°C			
	Input Voltage	Vdd	+3.0 ±5%			
	Input Current	Idd	2 max.			
	Output Type		Clipped Sinewave			
	Output Level		0.8 pk-pk min.			
	Output Load		10K II 10 pF			
	Frequency Tuning		±5 to ±15 over control voltage range			
	Control Voltage	Vc	1.5 ±1.0			
	Phase Noise (Typical)	10 Hz	100 Hz	1 kHz	10 kHz	
		-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

