

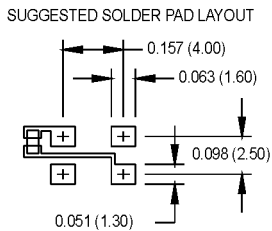
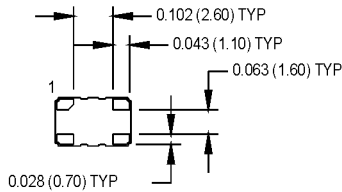
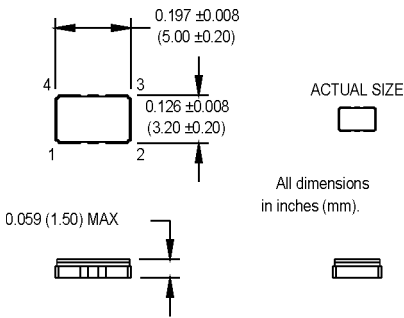
# M6027 & M6028 Series

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

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



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 8: 0°C to +50°C F: -30°C to +75°C												
	6: -20°C to +70°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)													



### Pin Connections

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

	PARAMETER		Symbol	Units	
	Electrical Specifications	Frequency Range	F	12.6 to 26	MHz
Initial Frequency Tolerance @ +25°C			±0.5 (V <sub>c</sub> = 1.5V)	ppm (M6028 only)	
Frequency Stability Over Operating Temperature		ΔF/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 <sub>dd</sub>	+3.0 ±5%	V	
Input Current		I <sub>dd</sub>	2 max.	mA	
Output Type			Clipped Sinewave		
Output Level			0.8 pk-pk min.	V	
Output Load			10K    10 pF		
Frequency Tuning			±5 to ±15 over control voltage range	ppm (M6028 only)	
Control Voltage		V <sub>c</sub>	1.5 ±1.0	V (M6028 only)	
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 <sup>-8</sup> atm.cc/s of helium)		
	Solderability		Per EIAJ-STD-002		