M6027 & M6028 Series

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

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

RoHS Compliant

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

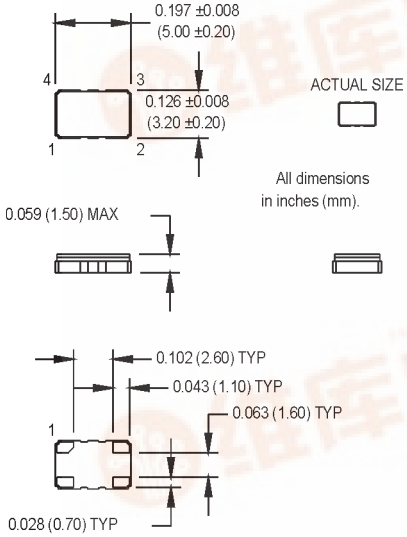
Frequency Control
F: Fixed for TCXO
V: Voltage Tuned for TCVCXO

Output Type
S: Clipped Sinewave

Package/Lead Configurations
N: Leadless

Frequency (customer specified)

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

Pin Connections

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

MtronPTI Lead Free Solder Profile