M6029 and M6030 Series

5x7 mm, 3.0 Volt, Clipped Sinewave, TCXO/TCVCXO

- **Miniature Size**
- **Ideal for handheld and portable devices**

RoHS Compliant

Ordering Information

M6029/M6030 | 1 | H | F | S | N | 00.0000 MHz

Product Series
M6029 = TCXO
M6030 = 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

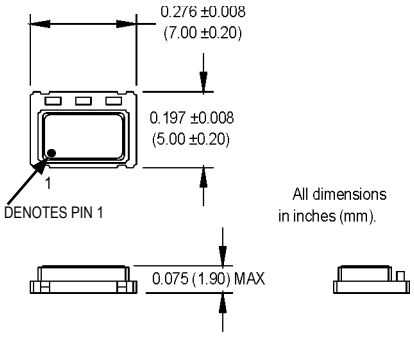
Stability
H: ±2.5 ppm
J: ±1.5 ppm
L: ±5 ppm

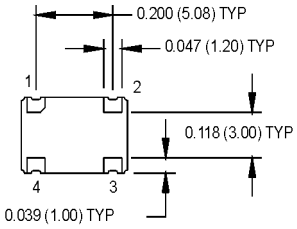
Frequency Control
F: Fixed for TCXO
V: Voltage Tuned for TCVCXO

Output Type
S: Clipped Sinewave

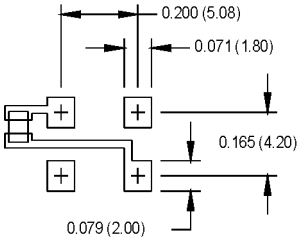
Package/Lead Configurations
N: Leadless

Frequency (customer specified)





SUGGESTED SOLDER PAD LAYOUT



Pin Connections

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

Electrical Specifications

PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
Frequency Range	F	12.6		26	MHz	
Operating Temperature	T_A	(See Ordering Information)				
Storage Temperature	Ts	-30		+75	°C	
Frequency Stability	ΔF/F	(See Ordering Information)				
Aging						
1st Year		-1		+1	ppm	@ 25°C
Thereafter (per year)		-1		+1	ppm	@ 25°C
Control Voltage	Vc	0.5	1.5	2.5	V	M6030
Tuning Range		±5		±15	ppm	M6030
Input Voltage	Vdd	2.85	3.0	3.15	V	
Input Current	Idd			2.5	mA	
Output Type						Clipped Sinewave
Load		10K Ω | 10 pF				
Output Level		0.8			V	pk-pk
Start up Time			5		ms	
Phase Noise (Typical)		10 Hz	100 Hz	1 kHz	10 kHz	Offset from carrier
		-80	-110	-130	-145	dBc/Hz

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.