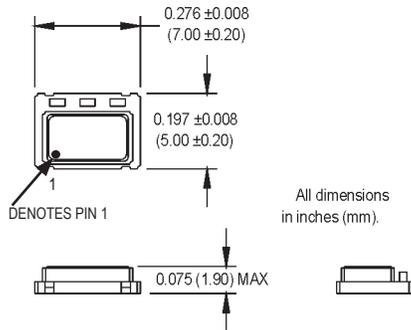


# M6029 and M6030 Series

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

- Miniature Size
- Ideal for handheld and portable devices

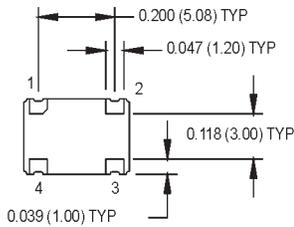


Ordering Information		M6029/M6030					1	H	F	S	N	00.0000	MHz
Product Series													
M6029 = TCXO													
M6030 = TCVCXO													
Temperature Range													
1: 0°C to +70°C													
6: -20°C to +70°C													
8: 0°C to +50°C													
A: -10°C to +60°C													
F: -30°C to +75°C													
Stability													
H: ±2.5 ppm													
L: ±5 ppm													
J: ±1.5 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)													

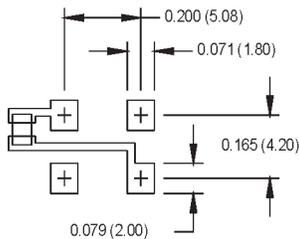
M6029Sxxx & M6030Sxxx - Contact factory for datasheets.

### Pin Connections

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



### SUGGESTED SOLDER PAD LAYOUT



PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
Frequency Range	F	12.6		26	MHz	
Operating Temperature	T <sub>A</sub>	(See Ordering Information)				
Storage Temperature	T <sub>S</sub>	-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	V <sub>c</sub>	0.5	1.5	2.5	V	M6030
Tuning Range		±5		±15	ppm/V	M6030
Input Voltage	V <sub>dd</sub>	2.85	3.0	3.15	V	
Input Current	I <sub>dd</sub>			2.5	mA	
Output Type						Clipped Sinewave
Load		10 ohms    10pF				
Output Level		0.8			V	pk-pk
Start up Time			5		ms	
Phase Noise (Typical)		100 Hz -80	100 Hz -110	1 kHz -130	10 kHz -145	Offset from carrier dBc/Hz
<b>Environmental</b>						
Shock		MIL-STD-202, Method 213, Condition C				100 g
Vibration		MIL-STD-202, Method 201 & 204				10 g from 10 to 2000 Hz
Solderability		EIAJ-STD-002				
Max Soldering Conditions		See solder profile, Figure 1				

Clipped Sinewave Load – see load circuit diagram #7.

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.

Please see [www.mtronpti.com](http://www.mtronpti.com) for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

# MtronPTI Lead Free Solder Profile

