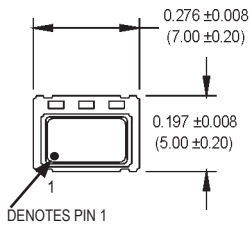


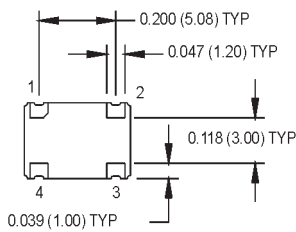
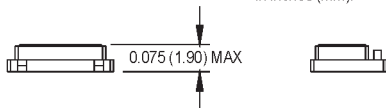
M6029 and M6030 Series

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

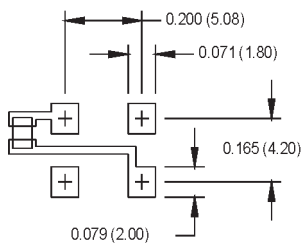
- Miniature Size
- Ideal for handheld and portable devices



All dimensions in inches (mm).



SUGGESTED SOLDER PAD LAYOUT



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)						

M6029Sxxx & M6030Sxxx - Contact factory for datasheets.

Pin Connections

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

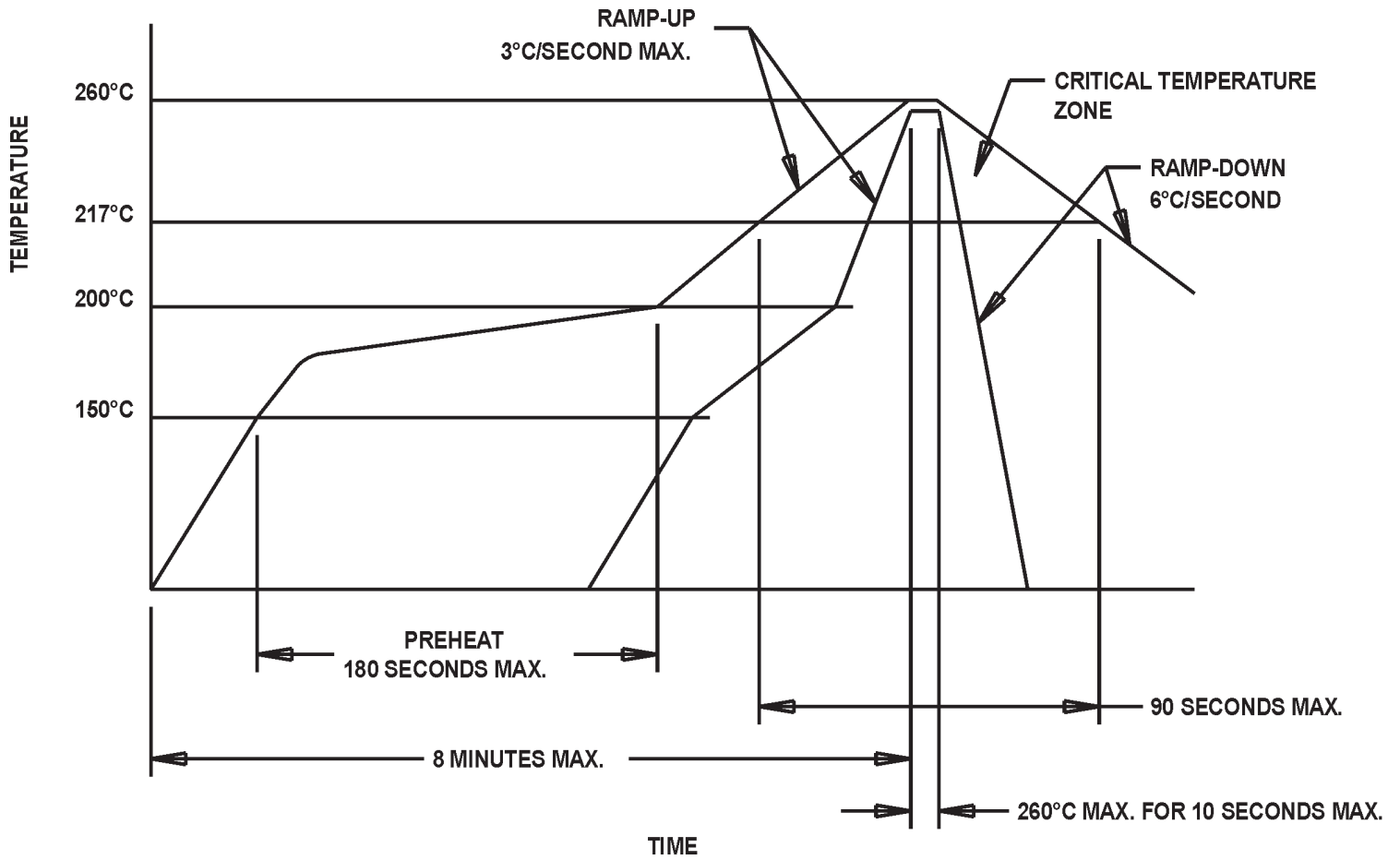
	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes	
Electrical Specifications	Frequency Range	F	12.6		26	MHz		
	Operating Temperature	T _A	(See Ordering Information)					
	Storage Temperature	T _S	-30		+75	°C		
	Frequency Stability	ΔF/F	(See Ordering Information)					
	Aging							
	1st Year		-1		+1	ppm	@25°C	
	Thereafter (per year)		-1		+1	ppm	@25°C	
	Control Voltage	V _c	0.5	1.5	2.5	V	M6030	
	Tuning Range		±5		±15	ppm/V	M6030	
	Input Voltage	V _{dd}	2.85	3.0	3.15	V		
	Input Current	I _{dd}			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	
Environmental	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 for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.

MtronPTI Lead Free Solder Profile



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 for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.