M6064 & M6065 Series

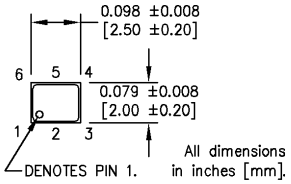
2.0 x 2.5 mm, 3.0 V, Clipped Sine Wave, TCXO/VCTCXO

Features:

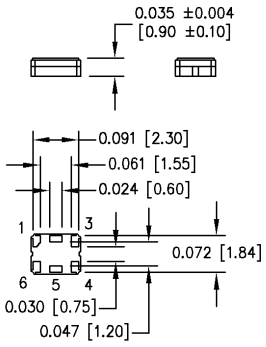
- Ultra Miniature Package
- Tight Stability Performance
  - Down to ±0.5 ppm
- Standard 6 Pad Configuration

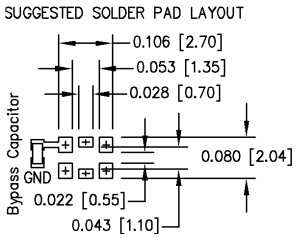
Applications:

- Telecommunications such as SONET / SDH / DWDM / FEC / SERDES / OC-3 thru OC-192
- Wireless base stations / WLAN / Gigabit Ethernet
- Avionic flight controls and military communications









Pin Connections

Pin	Function
1	Ground or V_{CT}
2	N/C
3	Ground
4	Output
5	N/C
6	$+V_{DD}$

Ordering Information

M6064	1	J	S	N	00.0000 MHz

Product Series
M6064 = TCXO
M6065 = VCTCXO

Temperature Range
1: 0 °C to +70 °C **H:** -30 °C to +85 °C
2: -40 °C to +85 °C

Stability
H: ±2.5 ppm **J:** ±1.0 ppm **G:** ±0.5 ppm

Output Waveform
S: Clipped Sine Wave

Package/Lead Configurations
N: 6 Pad Leadless Ceramic

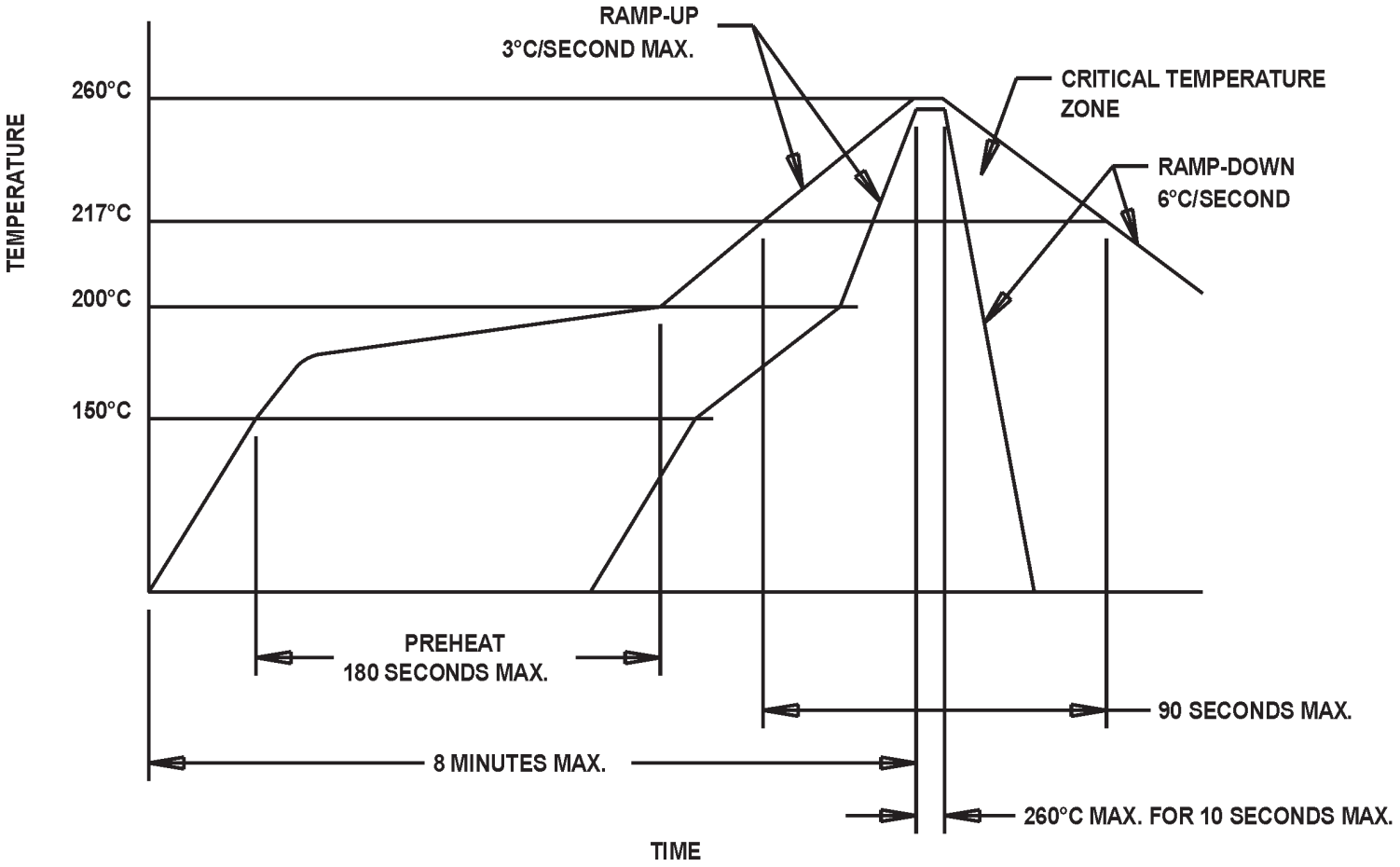
Frequency (customer specified)

M6064Sxxx & M6065Sxxx - Custom datasheets.

	Parameter	Symbol	Min	Typ	Max	Units	Conditions
Electrical Specifications	Frequency Range	F_R	10.0		52.0	MHz	
	Frequency Tolerance	ΔF/F	-1.0		+1.0	ppm	@ +25 °C, initial
		ΔF/F	-1.5		+1.5	ppm	@ +25 °C, after two reflow soldering profiles
	Frequency Stability	$\Delta F_T/F$	(See Ordering Information)			ppm	Over Operating Temperature
	Frequency vs Supply Voltage	$\Delta F_{VDD}/F$	-0.2		+0.2	ppm	For ±10% voltage change
	Frequency vs Load	$\Delta F_{LOAD}/F$	-0.2		+0.2	ppm	For ±10% load change
	Aging		-1.0		+1.0	ppm	per year @ +40 °C
	Operating Temperature	(See Ordering Information)					
	Input Voltage	V_{DD}	2.85	3	3.15	V	
	Input Current	I_{DD}			2	mA	
	Output Type	Clipped Sine Wave					
	Output Load	10 kΩ || 10 pF					
	Output Level		0.8			V_{pk-pk}	
	Control Voltage	V_{CT}	0.5	1.5	2.5	V	M6065 only.
	Frequency Tuning		±5		±12	ppm	M6065 only. V_{CT} = +1.5 V
	Phase Noise (Typical)			-85		dBc/Hz	@ 10 Hz
				-110		dBc/Hz	@ 100 Hz
				-135		dBc/Hz	@ 1 kHz
				-150		dBc/Hz	@ 10 kHz
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213 (2000 g, 0.3 ms duration, ½ sine wave)					
	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g from 20 Hz to 2000 Hz)					
	Hermeticity	Per MIL-STD-202, Method 112 ($1x10^{-8}$ atm.cc/s of helium) (Crystal unit only)					
	Storage Temperature	-55 °C to +105 °C					
	Solderability	Per EIAJ-STD-002					
	Max Soldering Conditions	See Solder Profile, Figure 1					
	Package	6-pad 2.0 X 2.5 X 0.9 mm leadless ceramic. RoHS compliant.					

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MtronPTI Lead Free Solder Profile



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