M6005 Series
9x14 mm FR-4, 3.3 Volt, HCMOS/TTL, TCXO

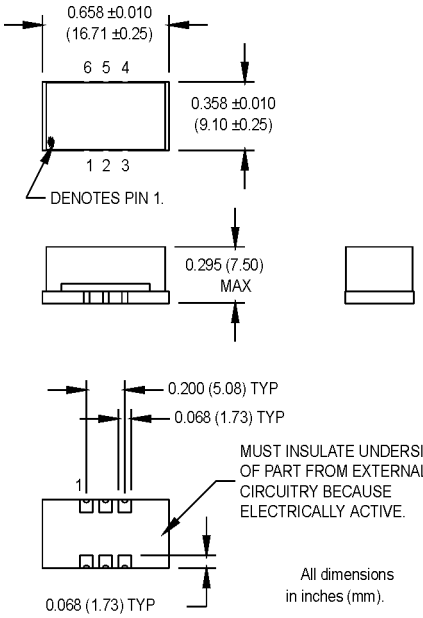


- Stratum 3 compliant stability and aging
- Ideal for WLL/DWDM/ATM, and SONET/ SDH applications

Ordering Information

M6005 1 L F A D -R 00.0000 MHz

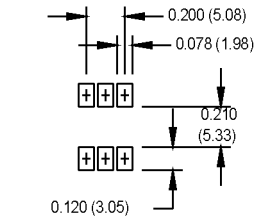
- **Product Series**
  - M6005 = 3.3 V
- **Temperature Range**
  - 1: 0°C to +70°C
  - 2: -40°C to +85°C
  - 6: -20°C to +70°C
  - 8: 0°C to +50°C
- **Stability**
  - L: ±5 ppm
- **Frequency Control (Pin #1)**
  - F: Fixed
- **Symmetry/Logic Compatibility**
  - A: 40/60 CMOS/TTL
  - B: 45/55 TTL
  - C: 45/55 CMOS
- **Package/Lead Configurations**
  - K: FR-4, 6 Pad
- **RoHS Compliance**
  - Blank: non-RoHS compliant part
  - -R: RoHS compliant part
- **Frequency (customer specified)**



Pin Connections

FUNCTION	SMT
N/C	1
Tristate	2
Ground/Case	3
Output	4
N/C	5
+Vdd	6

SUGGESTED SOLDER PAD LAYOUT

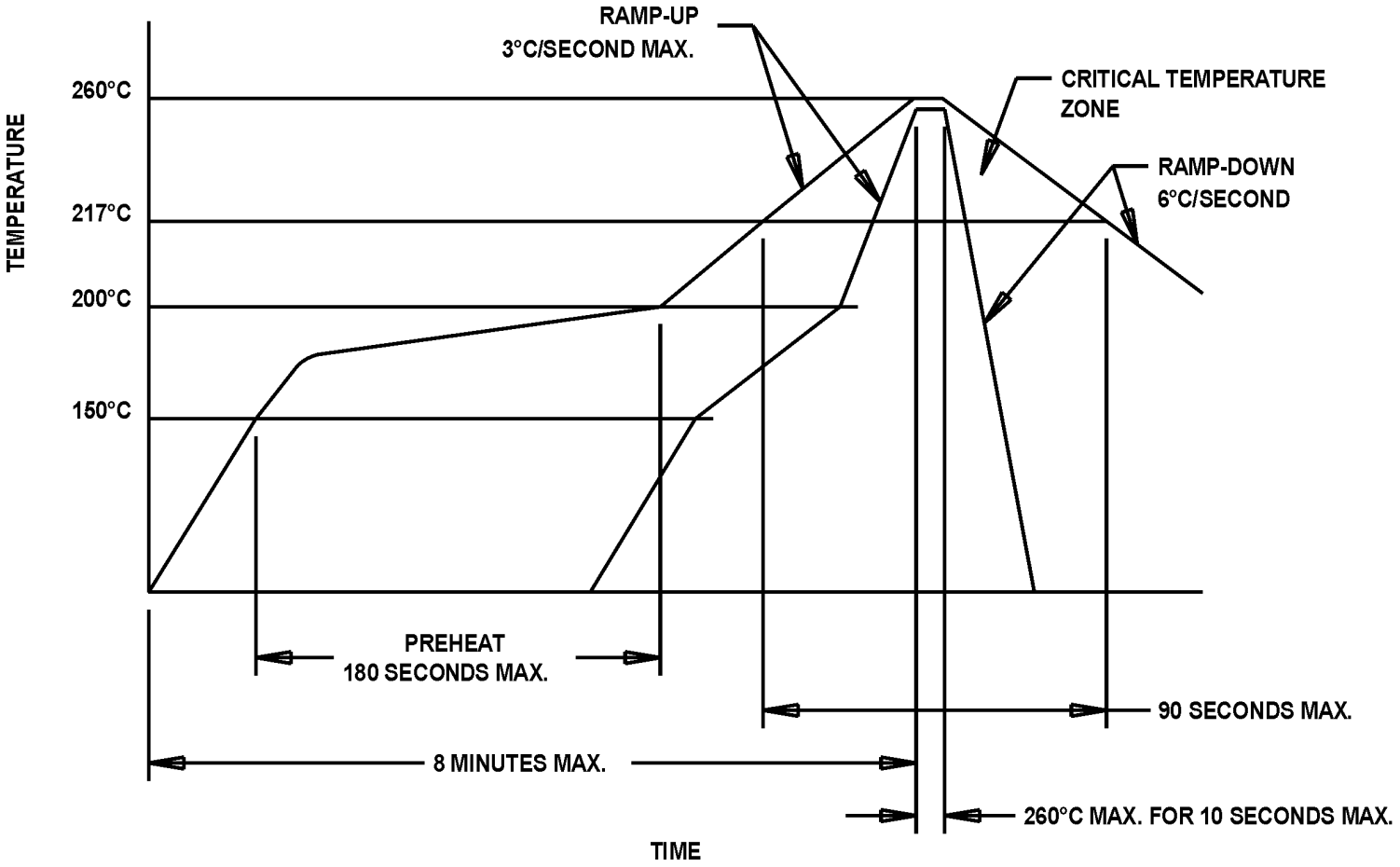


Electrical Specifications	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
	Frequency Range	F	60		170	MHz	
	Operating Temperature	TA	(See Ordering Information)				
	Storage Temperature	TS	-55		+105	°C	
	Frequency Stability	ÄF/F	(See Ordering Information)				See Note 1
	Aging 1st Year Thereafter (per year)				 1.5 0.5	 ppm ppm	
	Input Voltage	Vdd	3.15	3.3	3.45	V	
	Input Current	Idd			50	mA	
	Output Type						CMOS/TTL
	Load		2 TTL or 15 pF max.				
	Symmetry (Duty Cycle)		(See Ordering Information)				
	Logic "1" Level	Voh	2.5			V	
	Logic "0" Level	Vol			0.5	V	
	Rise/Fall Time	Tr/Tf			10	ns	
	Tristate Function		Input Logic "1": output active Input Logic "0": output disables				
	Start up Time		10			ms	
	Phase Noise (Typical) @155.52 MHz	10 Hz -60	100 Hz -90	1 kHz -110	10 kHz -120	100 kHz -120	Offset from carrier dBc/Hz

1. Stability is inclusive of five year aging at 25°C.

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MtronPTI Lead Free Solder Profile



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