M6007 Series
9x14 mm FR-4, 3.3 Volt, HCMOS/TTL, TCVCXO

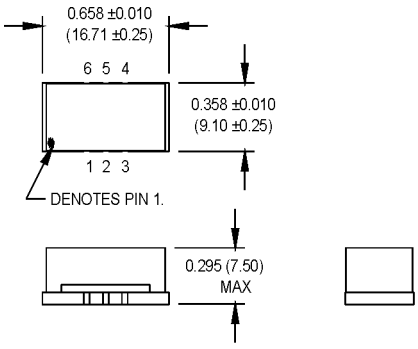
- Stratum 3 compliant stability and aging
- Ideal for WLL/DWDM/ATM, and SONET/SDH applications

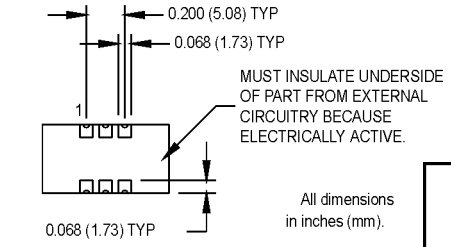
RoHS Compliant

Ordering Information

M6007 1 L V A D 00.0000 MHz

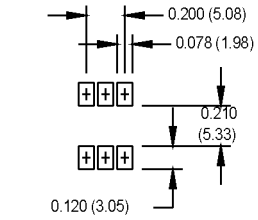
- Product Series
- Temperature Range
  - 1: 0°C to +70°C
  - 2: -40°C to +85°C
  - 6: -20°C to +70°C
  - 8: 0°C to +50°C
- Stability
  - L: ±5 ppm
- Frequency Control (Pin #1)
  - V: ±10 ppm
- Symmetry/Logic Compatibility
  - A: 40/60 CMOS/TTL
  - B: 45/55 TTL
  - C: 45/55 CMOS
- Package/Lead Configurations
  - D: DIP; Nickel Header
  - K: FR-4, 6 Pad
- Frequency (customer specified)





All dimensions in inches (mm).

SUGGESTED SOLDER PAD LAYOUT



Pin Connections

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

Electrical Specifications

PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
Frequency Range	F	60		170	MHz	
Operating Temperature	T_A	(See Ordering Information)				
Storage Temperature	T_S	-55		+105	°C	
Frequency Stability	ÄF/F	(See Ordering Information)				See Note 1
Aging						
1st Year				1.5	ppm	
Thereafter (per year)				0.5	ppm	
Pullability/APR		(See Ordering Information				
Control Voltage	Vc	0.5	1.5	2.5		
Tuning Range				10	ppm/V	
Modulation Bandwidth	fm	10			kHz	
Input Impedance	Zin	50k			Ohms	
Input Voltage	Vdd	3.15	3.3	3.45	V	
Input Current	Idd			25	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				Opposite tristate logic available upon request.
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.

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.