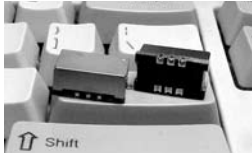
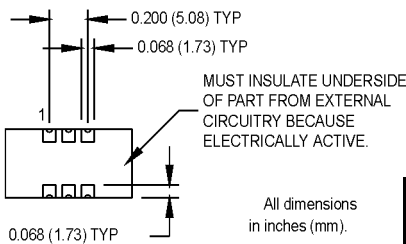
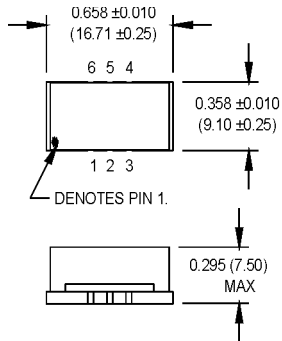


M6007 Series

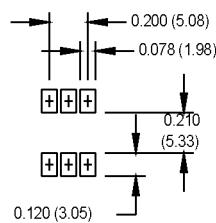
9x14 mm FR-4, 3.3 Volt, HCMOS/TTL, TCVCXO



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



SUGGESTED SOLDER PAD LAYOUT



Pin Connections

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

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)						

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	ΔF/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	V _c	0.5	1.5	2.5		
Tuning Range				10	ppm/V	
Modulation Bandwidth	f _m	10			kHz	
Input Impedance	Z _{in}	50k			Ohms	
Input Voltage	V _{dd}	3.15	3.3	3.45	V	
Input Current	I _{dd}			25	mA	
Output Type						CMOS/TTL
Load		2 TTL or 15 pF max.				
Symmetry (Duty Cycle)		(See Ordering Information)				
Logic "1" Level	V _{oh}	2.5			V	
Logic "0" Level	V _{ol}			0.5	V	
Rise/Fall Time	T _r /T _f			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	100 Hz	1 kHz	10 kHz	100 kHz	Offset from carrier dBc/Hz
	-60	-90	-110	-120	-120	

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.

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

