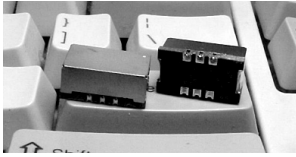
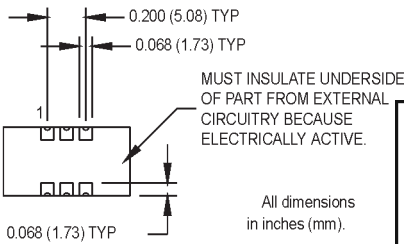
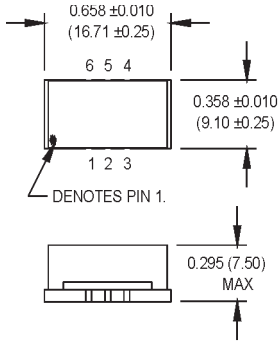


M6005 Series

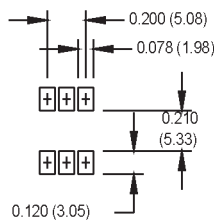
9x14 mm FR-4, 3.3 Volt, HCMOS/TTL, TCXO



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



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

Product Series	M6005	1	L	F	A	K	-R	00.0000	MHz
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)									

M6005Sxxx - Contact factory for datasheet.

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes	
Electrical Specifications	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		
	Input Voltage	V _{dd}	3.15	3.3	3.45	V		
	Input Current	I _{dd}			50	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						
Start up Time				10	ms			
Phase Noise (Typical)							Offset from carrier	
@155.52 MHz	10 Hz	-60	-90	-110	-120	-120	dBc/Hz	
Environmental	Shock	MIL-STD-202, Method 213, C				100 g's		
	Vibration	MIL-STD-202, Method 201 – 204				10g's from 10-2000 Hz		
	Thermal Cycle	MIL-STD-883, Method 1010, B				-55°C to +125°C, 15 minute dwell, 10 cycles		
	Hermeticity	MIL-STD-202, Method 112				Must meet 1 x 10 ⁻⁵		
Max. Soldering Cond.	See solder profile, Figure 1							

1. Stability is inclusive of five year aging at 25°C.
TTL Load – See load circuit diagram #1. HCMOS Load – See load circuit diagram #2.

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

