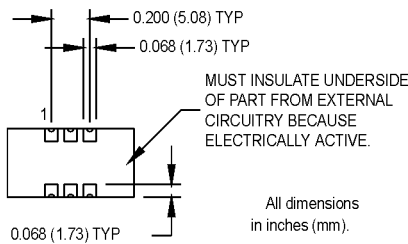
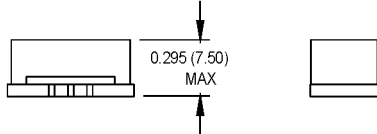
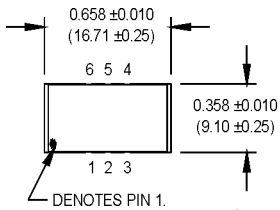


# M6005 Series

## 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



All dimensions in inches (mm).

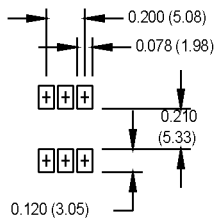
### Pin Connections

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

### 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)									

### SUGGESTED SOLDER PAD LAYOUT



PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes	
Frequency Range	F	60		170	MHz		
Operating Temperature	T <sub>A</sub>	(See Ordering Information)					
Storage Temperature	T <sub>S</sub>	-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 <sub>dd</sub>	3.15	3.3	3.45	V		
Input Current	I <sub>dd</sub>			50	mA		
Output Type						CMOS/TTL	
Load		2 TTL or 15 pF max.					
Symmetry (Duty Cycle)		(See Ordering Information)					
Logic "1" Level	V <sub>oh</sub>	2.5			V		
Logic "0" Level	V <sub>ol</sub>			0.5	V		
Rise/Fall Time	T <sub>r</sub> /T <sub>f</sub>			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	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.

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# MtronPTI Lead Free Solder Profile

