

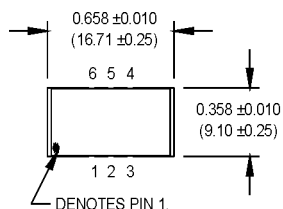
# M6005 Series

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



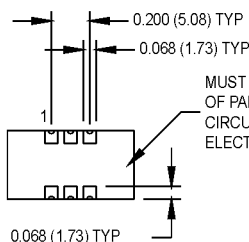
### Ordering Information

	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)									



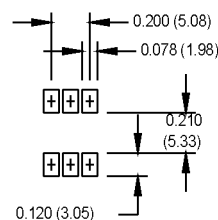
### Pin Connections

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



All dimensions  
in inches (mm).

### 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	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.

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](http://www.mtronpti.com) for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.