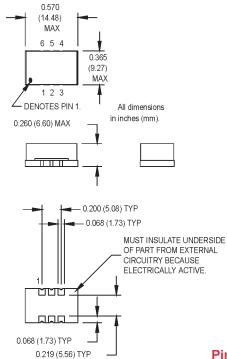
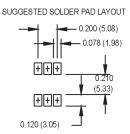
## M6005 & M6006 Series 9x14 mm FR-4, 5.0 or 3.3 Volt, HCMOS/TTL, TCXO





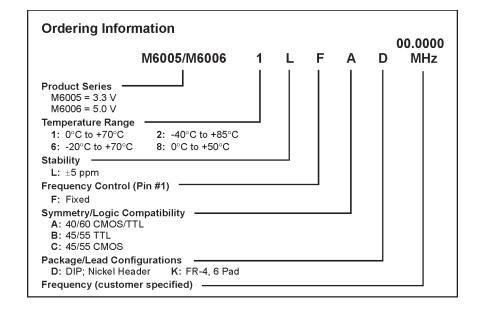
- Excellent aging and phase noise
- Ideally suited for fixed wireless radio, LMDS, and GPS applications

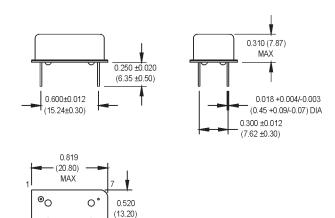




## **Pin Connections**

PIN	FUNCTION			
1	N/C			
2	Tri-state			
3	Ground			
4	Output			
5	N/C			
6	+Vdd			





All dimensions in inches (mm).

MAX

INSULATED STANDOFFS

## **Pin Connections**

PIN	FUNCTION				
1	N/C or Control Voltage				
7	Ground/Case				
8	Output				
14	+Vdd				

M-tron 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. No rights under any patent accompany the sale of such product.

## M6005 & M6006 Series 9x14 mm FR-4, 5.0 or 3.3 Volt, HCMOS/TTL, TCXO





	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition	
	Frequency Range	F	60		170	MHz		
	Frequency Stability	∆F/F	(See Ordering Information)					
	Operating Temperature	TA	(See Ordering Information)					
	Storage Temperature	TS	-55 +85 °C					
Electrical Specifications	Input Voltage	Vdd	3.135	3.3	3.465	VDC		
			4.75	5.0	5.25	VDC		
	Input Current	ldd			15	mA	3.3 Volt	
					20		5.0 Volt	
	Symmetry (Duty Cycle)		(See Ordering Information)					
S	Load		5 TTL or 15 pF Max.					
rica	Rise/Fall Time	Tr/Tf			10	ns		
Elect	Logic "1" Level	Voh	2.4			VDC	TTL Load	
			90			%	HCMOS Load	
	Logic "0" Level	Vol			10	VDC	TTL Load	
					0.4	%	HCMOS Load	
	Phase Jitter	φJ		TBD		ps RMS	Cycle-to-Cycle	
	Aging <sup>1</sup>							
	Modulation Bandwidth	fm	10			kHz		
	Input Impedance (Pin 1)	Zin	100			ΚΩ		
la	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C						
ent	Vibration	Per MIL-STD-202, Method 201 & 204						
Environmental	Reflow Solder Conditions	See "Figure 2" on page 147						
vir	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 <sup>-8</sup> atm.cc/s of helium)						
En	Solderability	Per EIAJ-STD-002						

<sup>1.</sup> Stability is inclusive of 5 year aging @ 25°C.

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