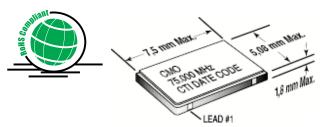
5 x 7 mm, 5.0 Volt, CMOS/TTL, Clock Oscillator

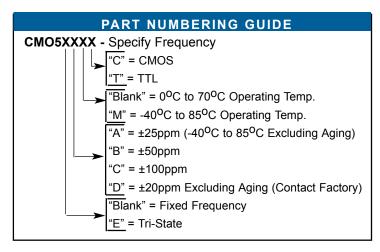


THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS. PLEASE REFER TO THE M1 PRODUCT SERIES.

- TTL/CMOS Compatible
- Tri-State Feature for Auto Test Systems
- Tape & Reel Packaging
- ±20ppm Available Please Contact Factory



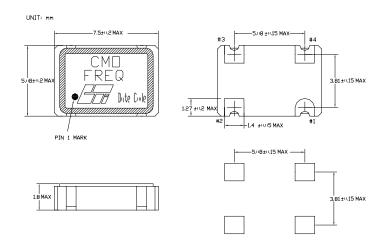
	EL	ECTRICAL SE	PECIFICATIONS	
MODEL	CMO5			
Frequency Range (MHz)	1.5 to 156.250			
Frequency Stability (ppm)				
Overall (Typical)	Inclusive of calibration, temperature, voltage, load, shock, vibration, aging			
0°C to 70°C		±25		
-40°C to +85°C		±50		
Temperature Range (°C)				
Operating		-40°C to +85°C		
Storage		-40°C to +125°C		
Supply Voltage (V)		+5.0 ±10%		
Input Current (mA)	1.5MHz to 30MHz	>30MHz to 50MHz	>50MHz to 156.250MHz	
	<10	<30	<50	
Symmetry (%) TTL/CMOS		45/55		
Transistion Times	1.5MHz	to 50MHz	>50MHz to 156.250MHz	
Rise Time (ns)	<	:5	<3	
Fall Time (ns)	<	:5	<3	
Load		10TTL/15pF		
"0" Level (V _{OL})	0.5V			
"1" Level (V _{OH})	2.4V/4.5V			
Start up Time (ms)	<10			



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.

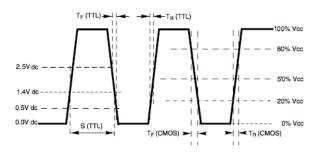


THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS. PLEASE REFER TO THE M1 PRODUCT SERIES.

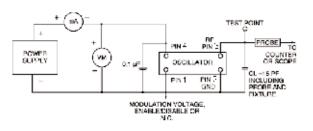


PIN	FUNCTION
1	N/C / Tri-State
2	Ground
3	Output
4	+ VCC

OUTPUT WAVEFORM



TEST CIRCUIT DIAGRAM



MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS				
TEST METHODS	REFERENCE PROCEDURES	DESCRIPTION		
Temperature Cycle	MIL-STD-833, Mtd 1010, Cond. B	-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell		
Mechanical Shock	MIL-STD-883, Mtd 2002, Cond. B	1500 g's		
Vibration	MIL-STD 883, Mtd 2007, Cond. B	20-2000 Hz; 0.06 inch; 15g's; 3 planes		
Humidity Steady State	MIL-STD-202, Mtd 103	40°C; 90%-95% R.H.; 56 days		
Thermal Shock	MIL-STD-883, Mtd 1011.7 Cond. B	100°C to 0°C; Water-to-Water; 15 cycles		
Electrostatic Discharge	MIL-STD-883, Mtd 3015 Class II	2 KV to 4 KV Threshold		
Solderability	MIL-STD-883, Mtd 2022.2	Solder dip; Meniscograph Criteria		
Hermeticity	MIL-STD-883, Mtd 1014.8, Cond. A1	Mass spectro. 2 x 10-8 atmos. CC/sec He		
Resistance to Soldering	MIL-STD-202, Mtd 210D, Cond. J	235°C; 30 seconds		
Lead Integrity	MIL-STD-883, Mtd 2004.5, Cond. A, B1	Lead tension & bend stress		
Marking Permanence	MIL-STD-883, Mtd 2015.8	Resistance to solvents		
Life Test	MIL-STD-883, Mtd 1005.6	125°C, powered, 1000 hours minimum		

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MtronPTI Lead Free Solder Profile

