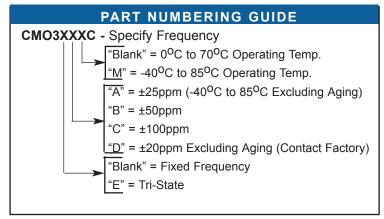


## THIS PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS. PLEASE REFER TO THE M2 PRODUCT SERIES.

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



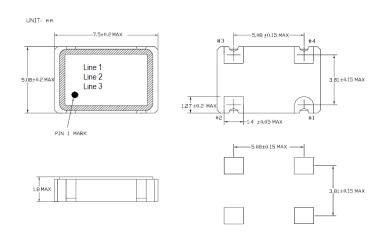
		LECTRICAL	SPECIFICAT	IONS
MODEL	CMO3			
Frequency Range (MHz)	1.5 to 156.250			
Frequency Stability (ppm)				
Overall (Typical)	Inclusive of calibration, temperature, voltage, load, shock, vibration, aging			
0°C to 70°C	±25			
-40°C to +85°C	±50			
Temperature Range (°C)				
Operating	-40°C to +85°C			
Storage	-40°C to +125°C			
Supply Voltage (V)	+3.3 ±10%			
Input Current (mA)	1.5 MHz to 20 MHz	>20 MHz to 50 MHz	>50 MHz to 67 MHz	>67 MHz to 156.25 MHz
	<10	<20	<30	<55
Symmetry (%) CMOS	45/55			
Transition Time 20% to 80% Vdd	1.5 MHz to 50 MHz		>50 MHz to 156.250 MHz	
Rise Time (ns)	<5		<3	
Fall Time (ns)	<5		<3	
Load	15pF			
"0" Level (V <sub>oL</sub> ) max	10% Vdd			
"1" Level (V <sub>он</sub> ) min	90% Vdd			
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 M2 PRODUCT SERIES.

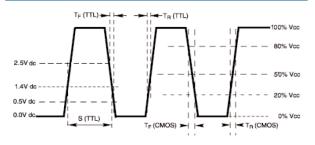


PIN	FUNCTION	
1	N/C / Tri-State	
2	Ground	
3	Output	
4	+ V <sub>CC</sub>	

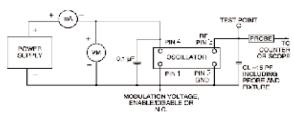
Part Marking	
Line 1	CMO3XXXC
Line 2	'FFFMFFF
Line 3	M yy ww vv

Legend		
XXX	See part numbering guide	
уу	Last two digits of year	
ww	Week number	
VV	MtronPTI factory code	

## **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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