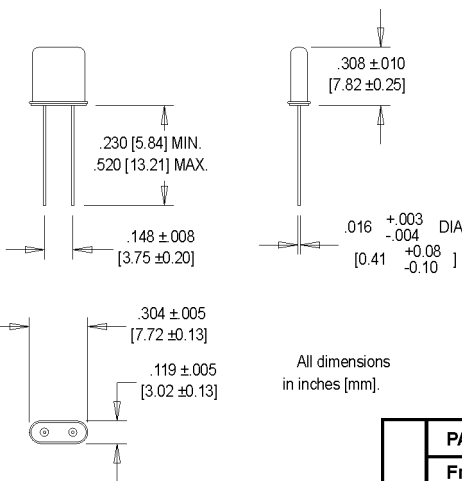


CIM Crystals



- Former **Champion** Product
TECHNOLOGIES, INC.
- Low-Jitter, Precision Clocks, VCXO's and TCVCXO's



Ordering Information

Product Series: **CIM**

Load Capacitance: **X X**

Temperature Range: **00.0000** MHz

Blank: 0°C to +70°C

M: -40°C to +85°C

Frequency (customer specified)

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition
Electrical Specifications	Frequency Range	F	51.840		155.520	MHz	Nominal
	Frequency Tolerance		-25		+25	ppm	25°C ±3°C @ CL=32pF
	Pullability				105	ppm	(Fo - Fs) @ 32pF
	Operating Temperature		-40		+85	°C	
	Temperature Stability		-20		+20	ppm	re: 25°C, 0°C to +70°C
	Series Resistance	Rs			30	Ω	All conditions
	Standard Load Capacitance	Cl			32	pF	
	Shunt Capacitance	Co		3.0		pF	Frequency dependent
	Motion Capacitance	Cm		8.0		pF	CL=32pF, freq. dependent
	Aging				4.0	ppm	@ 25°C, first year
Environmental	Temperature Cycle	MIL-STD-883, Method 1010, Condition B				-55°C to +125°C; Air-to-Air; 100 cycles; 10 min. dwell	
	Mechanical Shock	MIL-STD-883, Method 2002, Condition B				1500 g's	
	Vibration	MIL-STD-883, Method 2007, Condition B				20-2000 Hz; 0.06 inch; 15 g's; 3 planes	
	Humidity Steady State	MIL-STD-202, Method 103				40°C; 90%-95% R.H.; 56 days	
	Thermal Shock	MIL-STD-883, Method 1011.7, Condition B				100°C to 0°C; Water-to-Water; 15 cycles	
	Electrostatic Discharge	MIL-STD-883, Method 3015, Class II				2 KV to 4 KV Threshold	
	Solderability	MIL-STD-883, Method 2022.2				Solder dip; Meniscograph Criteria	
	Hermeticity	MIL-STD-883, Method 1014.8, Cond. A1				Mass spectro. 2 x 10 ⁻⁸ atmos. CC/sec He	
	Resistance to Soldering	See page 147					
	Lead Integrity	MIL-STD-883, Mtd. 2004.5, Cond. A, B1				Lead tension & bend stress	
Marking Permanence	MIL-STD-883, Method 2015.8				Resistance to solvents		
Life Test	MIL-STD-883, Method 1005.6				125°C, powered, 1000 hours minimum		

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 for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.