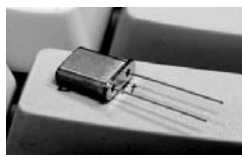
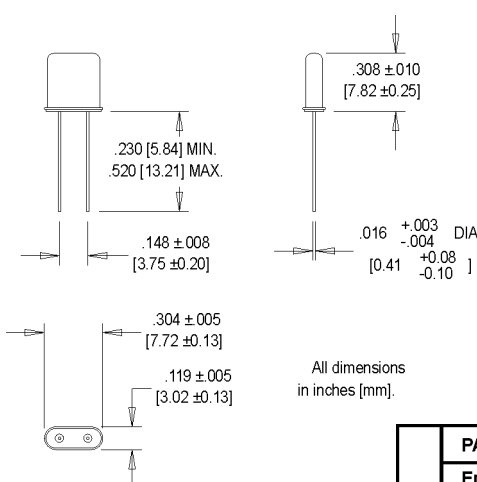


## CIM Crystals



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



### Ordering Information

				00.0000
	CIM	X	X	MHz
Product Series				
Load Capacitance				
A:	Series			
B:	32 pF			
C:	20 pF			
Temperature Range				
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 $\pm 3^\circ\text{C}$ @ 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	$\Omega$	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.

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