FMI Model Number

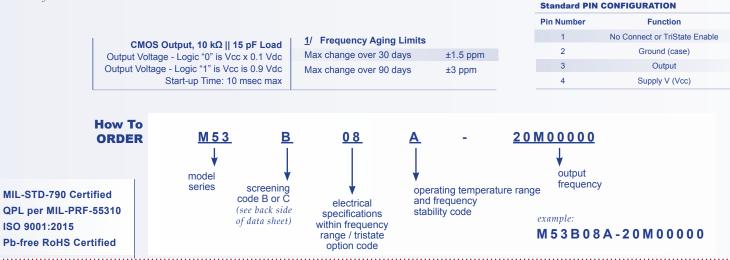


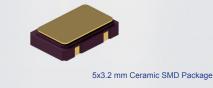
Electrical SPECIFICATIONS

Dash Number		Frequency	Supply	Rise/Fall	Symmetry	Aging	Stability over Operating Temperature				
No TriS		With TriState	Range (MHz)	Current @ 3.3V ±10% (mA)	Time (tr/tf) max (nsec)	min / max (%)	per year max <u>1</u> / (ppm)	-55°C to +150°C (ppm)	-55°C to +125°C (ppm)	-55°C to +105°C (ppm)	-40°C to +85°C (ppm)
COL	DE	CODE						CODE H	CODE A	CODE B	CODE C
0	1	02	0.5 to 0.9) 1.1	3	45/55	±10	±100	±75	±60	±50
0	3	04	1 to 7.9	1.3	3	40/60	±10	±100	±75	±60	±50
0	5	06	8 to 15.9	3	3	40/60	±10	±100	±75	±60	±50
0	7	08	16 to 49.9	96	2	40/60	±10	±100	±75	±60	±50
0	9	10	50 to 74.9	9 8	2	40/60	±10	±100	±75	±60	±50
1	1	12	75 to 94.9	9 16	2	40/60	±10	±100	±75	±60	±50
1	3	14	95 to 130) 25	2	40/60	±10	±100	±75	±60	±50

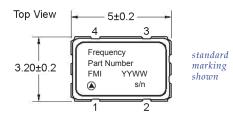
Please Contact Us for Specification Options that are Outside of

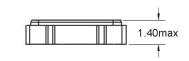
or beyond those Shown in the Table Above

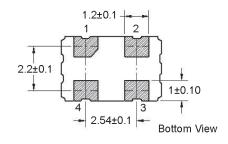




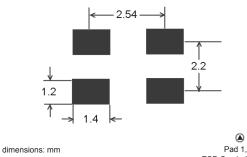
Mechanical SPECIFICATIONS







Recomended Land Pattern



ESD Symbol

FREQUENCY MANAGEMENT | International 15302 Bolsa Chica Street Huntington Beach, CA 92649

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			_	_				
Screening, B & C LEVELS								
Screening	Method Level:	В		С				
Non-Destruct Bond Pull	MIL-STD-883, Method 2023	•		•				
Internal Visual	MIL-STD-883, Method 2017, Class H; Method 2032, Class H							
Stabilization (Vacuum) Bake	MIL-STD-883, Method 1008, Condition C, 150°C, 24 hours min							
Temperature Cycling	MIL-STD-883, Method 1010, Condition B							
Constant Acceleration	MIL-STD-883, Method 2001, Condition A (Y1 only, 5000 g's)							
Seal: Fine Leak	MIL-STD-883, Method 1014, Condition A1	•						
Seal: Gross Leak	MIL-STD-202, Method 112, Condition D	•		•				
Electrical Test	Functional Test Only	•		•				
Marking & Serialization	MIL-STD-1285	•		•				
Electrical Test	Nominal Vcc & Extremes and Nominal Temp and Extremes							
Burn-in (no-load)	+125°C, Nominal Supply Voltage and Burn-in load, 48 hours min							
Burn-in (load)	+125°C, Nominal Supply Voltage and Burn-in load, 160 hours min							
External Visual & Mechanical	MIL-STD-883, Method 2009.10	•		•				
 Final Electrical Test a) Input current, output frequency, output waveform, are tested at +23°C ±2°C b) Frequency stability is tested over the specified temperature range; at both extremes and at +25°C at a minimum of 5 temperature increments note: Recording of test data is by lot # and then serial # 								

FMI

Features

	Ruggedized Design	Highest Temperature Ranges
	High-Shock & Vibration	Wider Frequency Ranges
	Made in the USA	Higher Reliability
	ECCN - EAR 99	Smaller Packages
	Industry Standard Packages	Lowest Current
		Best Service
Appli	cations	
	Mobile and Stationary Systems	Smart Ammunition
	Aircraft Engine	Deep Space Robotic
	Radar DSP	Navigation Systems
	Vision Systems	Guidance Systems
	Aircraft Control	Short & Long Earth Orbit Mission
	Position Sensors	Commercial Satellites
	Drone	Reusable Rockets

note: other screening levels and custom test plans available.

Environmental COMPLIANCE					continued			
Environmental	Specification	Method Condit	tion		Environmental	Specification	Method	Condition
Vibration – Sine	MIL-STD-202	Method 204	Condition D	20g, 10 to 2 KHz	Ambient Pressure	MIL-STD-202	Method 105	Condition C
Vibration – Random	MIL-STD-202	Method 214	Condition 1	30g rms, 10 to 2 KHz Random	Resistance to Soldering Heat	MIL-STD-202	Method 210	Condition C
Shock	MIL-STD-202	Method 213	Condition I	100g, 6 ms, F:1500, 0.5 ms	Moisture Resistance	MIL-STD-202	Method 106	with 7B Sub-cycle
Seal Test	MIL-STD-883	Method 1014	Condition A1	Fine Leak	Salt Atmosphere	MIL-STD-883	Method 1009	Condition A (24 hrs)
Seal Test	MIL-STD-883	Method 1014	Condition C1	Gross Leak	Terminal Strength	MIL-STD-202	Method 211	Test Condition D
Temperature Cycling	MIL-STD-883	Method 1010	Condition B	10 Cycles Minimum	Solderability	MIL-STD-883	Method 2003	
Constant Acceleration	MIL-STD-883	Method 2001	Condition A	5000g, Y1 Axis	Resistance to Solvents	MIL-STD-202	Method 215	
Thermal Shock	MIL-STD-202	Method 107	Condition B					

MIL-STD-790 Certified	MIL-PRF-55310	oce Specifications Oscillators, Crystal Controlled, General Specification For	Materials 1. Package Materials:	Products for Military Applications		
QPL per MIL-PRF-55310 ISO 9001:2015 Pb-free RoHS Certified	MIL-PRF-38534 MIL-STD-202 MIL-STD-883 MIL-STD-1686	Hybrid Microcircuits, General Specification For Test Method Standard, Electronic and Electrical Components Test Methods and Procedures for Microelectronics Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment	Ceramic, Alumina 90% min 2. Pad Plating Material: Gold Plate 0.3 μm (12 μ inch) over 2 μm (80 μ inch) min. Nickel	Contact us for assistance with your specification. We will provide you with the technical support and the required documentation. Issue3_1006202		



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