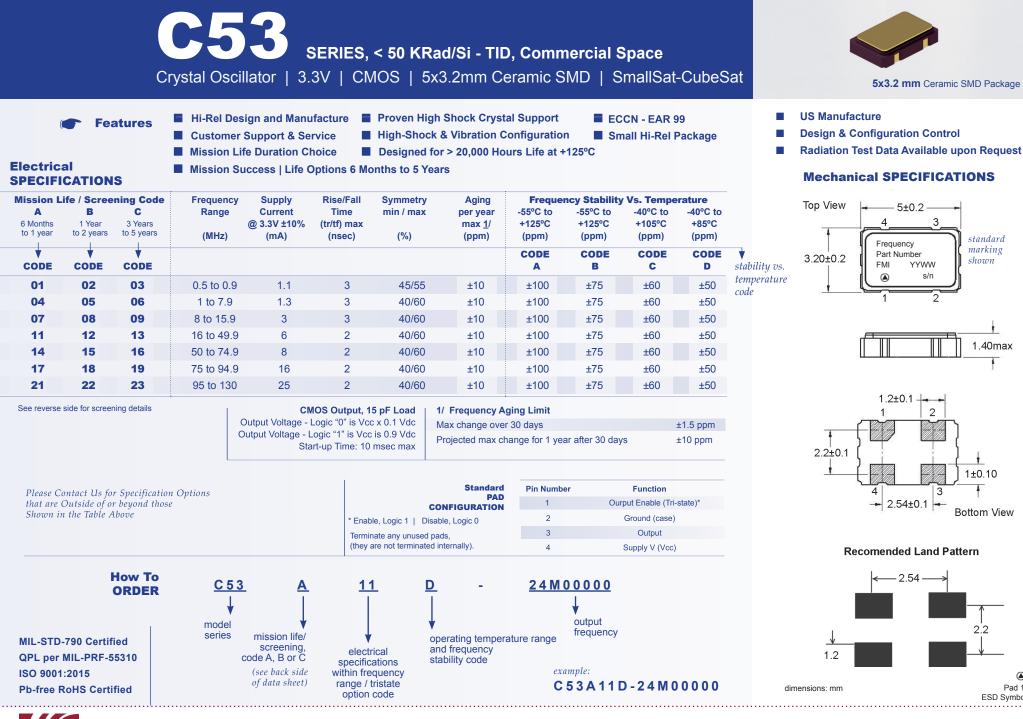
FMI Model Number



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

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standard

marking

1.40max

1±0.10

Bottom View

2.2

Pad 1.

ESD Symbol

shown



FMI

	Lower than 3.3 Volt
	versions of our 5x3.2 mm
	SMD Crystal Oscillator for
Commercial Satellite	are available, please inquire!



Coreening	Method Options:		B	
Screening		Α	В	
Non-Destruct Bond Pull	MIL-STD-883, Method 2023	•	•	
Internal Visual	MIL-STD-883, Method 2017	•	•	
Stabilization (Vacuum) Bake	MIL-STD-883, Method 1008, Condition C, 150°C, 24 hours min	•	•	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B, 10 Cycles	•	•	
Constant Acceleration	MIL-STD-883, Method 2001, Condition A (Y1 only, 5000 g's)		•	
PIND Test	MIL-STD-883, Method 2020, Condition B, 5 passes max			
Seal: Fine Leak	MIL-STD-883, Method 1014, Condition A1			
	MIL-STD-202, Method 112, Condition C, 111A			
Seal: Gross Leak	MIL-STD-202, Method 112, Condition D	•	•	
Electrical Test	Functional Test Only at +23°C		•	
Marking & Serialization	MIL-STD-1285		•	
Electrical Test	Nominal Vcc & Extremes and Nominal Temp and Extremes		•	
Burn-in (load)	+125°C, Nominal Supply Voltage and Burn-in load, 160 hours min		•	
Burn-in (no-load)	+125°C, Nominal Supply Voltage and Burn-in load, 48 hours min			
nterim Electrical	Functional Test Only			
Burn-in (load)	+125°C, Nominal Supply Voltage and Burn-in load, 160 hours min			
b) Frequency stability is tested	ncy, output waveform, are tested at +23°C ±2°C over the specified temperature range; at both minimum of 5 temperature increments is by lot # and then serial #	•	•	
Radiography	MIL-STD-883, Method 2012			
Frequency Aging	MIL-PRF-55310, +70°C Condition			
Frequency/Temperature Stability	MIL-PRF-55310, Over temperature extremes, 20 points equally spaced			
External Visual & Mechanical	MIL-STD-883, Method 2009	•	•	

note: other options, screening levels and custom test plans available.

MIL-STD-790 Certified QPL per MIL-PRF-55310 ISO 9001:2015 **Pb-free RoHS Certified**

Military Reference Specifications

MIL-PRF-55310	Oscillators, Crystal Controlled, General Specification For
MIL-PRF-38534	Hybrid Microcircuits, General Specification For
MIL-STD-202	Test Method Standard, Electronic and Electrical Components
MIL-STD-883	Test Methods and Procedures for Microelectronics
MIL-STD-1686	Electrostatic Discharge Control Program for Protection of
	Electrical and Electronic Parts, Assemblies and Equipment



Environmental	COMPLIANCE			
Environmental	Specification	Method	Condition	
Vibration – Sine	MIL-STD-202	Method 204	Condition D	20g, 10 to 2 KHz
Vibration – Random	MIL-STD-202	Method 214	Condition 1	30g rms, 10 to 2 KHz Random
Shock	MIL-STD-202	Method 213	Condition I	100g, 6 ms, F:1500, 0.5 ms
Seal Test	MIL-STD-883	Method 1014	Condition A1	Fine Leak
Seal Test	MIL-STD-883	Method 1014	Condition C1	Gross Leak
Temperature Cycling	MIL-STD-883	Method 1010	Condition B	10 Cycles Minimum
Constant Acceleration	MIL-STD-883	Method 2001	Condition A	5000g, Y1 Axis
Thermal Shock	MIL-STD-202	Method 107	Condition B	
continued				
Environmental	Specifica	ation Me	ethod	Condition
Ambient Pressure	MIL-STD-2	202 Me	thod 105	Condition C
Resistance to Soldering H	leat MIL-STD-2	202 Me	thod 210	Condition C
Moisture Resistance	MIL-STD-2	202 Me	thod 106	with 7B Sub-cycle
Salt Atmosphere (corrosio	n) MIL-STD-8	383 Me	thod 1009	Condition A (24 hrs)
Terminal Strength	MIL-STD-2	202 Me	thod 211	Test Condition D
Solderability	MIL-STD-8	383 Me	thod 2003	
Resistance to Solvents	MIL-STD-2	202 Me	thod 215	

Materials

- 1. Package Materials: Ceramic, Alumina 90% min
- 2. External Lead Plating Material: Gold plated Kovar, 0.15 µm (60 µ inch) min, over 2.0 µm (80 µ inch) min Nickel

Products for Space Applications

Contact us for assistance with your specification. We will provide you with the technical support and the required documentation.

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