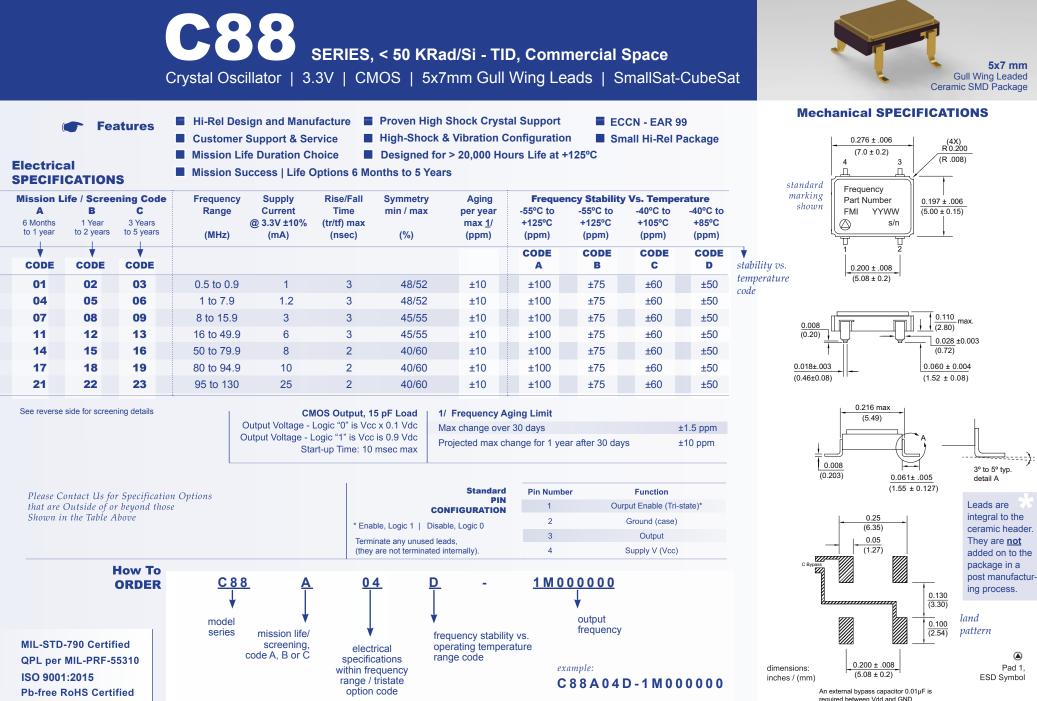
# **FMI** Model Number





Ph. 714 373 8100 Fx. 714 373 8700 Sales@FrequencyManagment.com

5x7 mm

-----

Pad 1,

ESD Symbol

## FrequencyManagement.com



Other Thru-hole Leaded 5x7 mm Ceramic SMD for Space, **Please Inquire!** 



ission Life   Screenin	• .	CODE		
Screening	Method Options:	Α	В	
Non-Destruct Bond Pull	MIL-STD-883, Method 2023	•	•	
nternal 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			
) 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.

## Helpful & Relevant Reference Specifications

MIL-STD-790 Certified	MIL-PRF-55310	Oscillators, Crystal Controlled, General Specification For
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



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

# Designed Specifically for Lower-cost Space Missions SmallSat | CubeSat

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 Specification** Method Condition Ambient Pressure MIL-STD-202 Method 105 Condition C Resistance to Soldering Heat MIL-STD-202 Condition C Method 210 Moisture Resistance MIL-STD-202 Method 106 with 7B Sub-cycle Salt Atmosphere (corrosion) MIL-STD-883 Method 1009 Condition A (24 hrs) **Terminal Strength** MIL-STD-202 Method 211 Test Condition D Solderability MIL-STD-883 Method 2003 Resistance to Solvents MIL-STD-202 Method 215

## Materials

- 1. Package Materials: Ceramic, Alumina 90% min
- 2. Pad Plating Material: Gold Plate 0.3 µm (12 µ inch) over 2 µm (80 µ inch) min. Nickel

## **Products for Space Applications**

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

Issue 11\_12192023

# Ph. 714 373 8100 Fx. 714 373 8700 Sales@FrequencyManagment.com

# FrequencyManagement.com

FMI