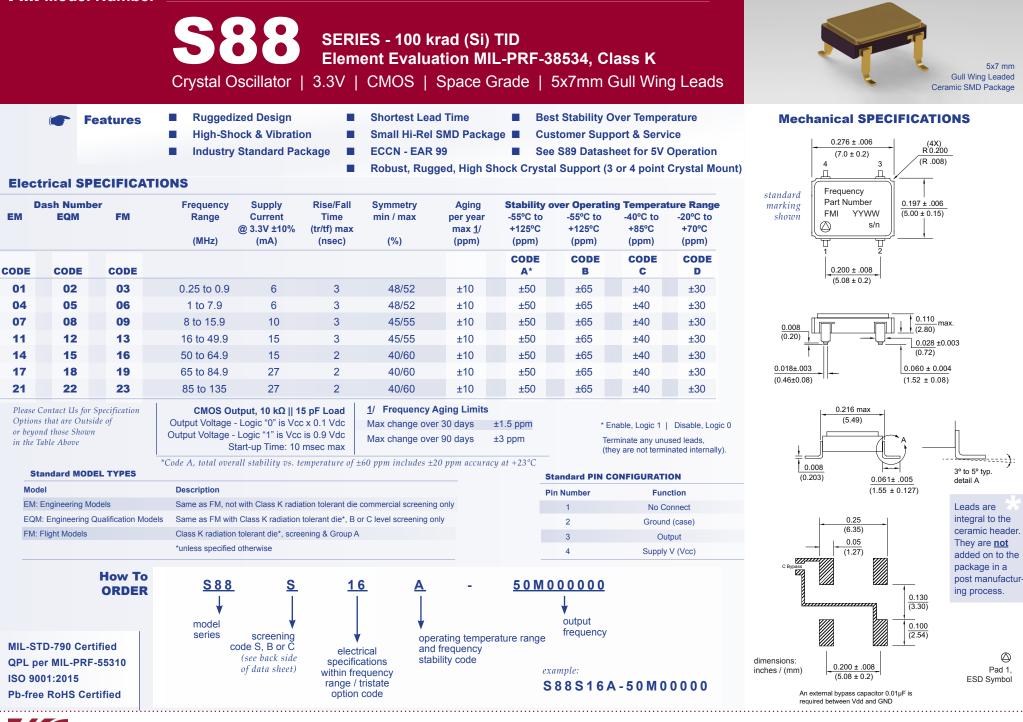
FMI Model Number



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

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



Screening- S, B & C LEVELS (per FMI General Specification for Class S Oscillators) CODE Screening Method Level: S В С Non-Destruct Bond Pull MIL-STD-883, Method 2023 • Internal Visual MIL-STD-883, Method 2017, Class K; Method 2032 • MIL-STD-883, Method 2017, Class H; Method 2032 • • Stabilization (Vacuum) Bake MIL-STD-883, Method 1008, Condition C, 150°C, 48 hours min • MIL-STD-883, Method 1008, Condition C, 150°C, 24 hours min • **Temperature Cycling** MIL-STD-883, Method 1010, Condition B, 10 Cycles ٠ • **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 • e 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 • Interim Electrical Functional Test Only • Burn-in (load) +125°C, Nominal Supply Voltage and Burn-in load, 160 hours min • **Final Electrical Test** . Input current, output frequency, output waveform, are tested at +23°C ±2°C a) Frequency stability is tested over the specified temperature range; at both b) extremes and at +25°C at a minimum of 5 temperature increments note: Recording of test data 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.

Military 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



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Options Available for FLIGHT MODELS

	Screening, Grou	ps A, B, C, & D	per MIL-PRF-38534	(QCI or Qualification)
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- Screening, Groups A, B & C per MIL-PRF-55310
- Data Packages
- Swept Quartz Crystals

Single Lot Date Code

Please request our General Specification for

Class S Oscillators Document # **QP1100100**

- Source Inspection
 - HiRes Photography

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 M	lethod	Condition				
Ambient Pressure	MIL-STD-2	202 M	ethod 105	Condition C				
Resistance to Soldering H	leat MIL-STD-2	.02 M	ethod 210	Condition C				
Moisture Resistance	MIL-STD-2	202 M	ethod 106	with 7B Sub-cycle				
Salt Atmosphere (corrosic	on) MIL-STD-8	83 M	ethod 1009	Condition A (24 hrs)				
Terminal Strength	MIL-STD-2	.02 M	ethod 211	Test Condition D				
Solderability	MIL-STD-8	83 M	ethod 2003					
Resistance to Solvents	MIL-STD-2	.02 M	ethod 215					

Materials

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