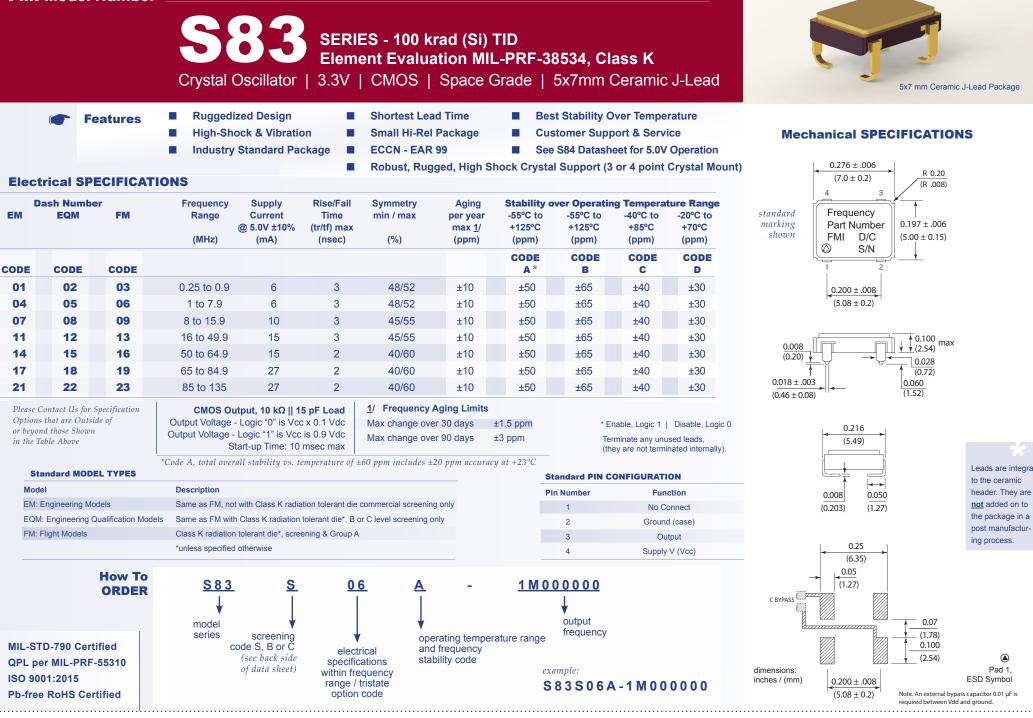
FMI Model Number



FREQUENCY MANAGEMENT | International 15302 Bolsa Chica Street

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Screening	Method Level:	S	В	
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	•		Π
	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	•		Γ
	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	•	•	Γ
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	•		
 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	٠		
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	MIL-PRF-38534 MIL-STD-202 MIL-STD-883 MIL-STD-1686	Hybrid Microcircuits, General Specification For Test Method Standard, Electronic and Electrical Components
Pb-free RoHS Certified		Test Methods and Procedures for Microelectronics Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment



Options Available for FLIGHT MODELS

	Screening,	Groups A, B,	С,	& D per	MIL-PRF-38534	(QCI o	r Qualification)
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- Screening, Groups A, B & C per MIL-PRF-55310 Data Packages

Single Lot Date Code

Please request our General Specification for

Class S Oscillators Document # QP1100100

Swept Quartz Crystals

- Source Inspection
- **HiRes Photography**

Environmental COMPLIANCE										
Environmental	Specification		Method		Condition					
Vibration – Sine	MIL-ST	MIL-STD-202		Method 204		20g, 10 to	20g, 10 to 2 KHz			
Vibration – Random	MIL-STE	0-202	Method 21	4	Condition 1	30g rms, 1	0 to 2 KHz	Random		
Shock	MIL-ST	D-202	Method 21	3	Condition I	100g, 6 m	s, F:1500, ().5 ms		
Seal Test	MIL-ST	D-883	Method 10)14	Condition A1	Fine Leak				
Seal Test	MIL-ST	D-883	Method 10)14	Condition C1	Gross Lea	ak			
Temperature Cycling	MIL-ST	D-883	Method 10)10	Condition B	10 Cycles	Minimum			
Constant Acceleration	MIL-ST	D-883	Method 20	001	Condition A	5000g, Y1	Axis			
Thermal Shock	MIL-ST	D-202	Method 10)7	Condition B					
continued										
Environmental		Specific	ation	Metho	d	Condition				
Ambient Pressure		MIL-STD-2	202	Method	105	Condition C				
Resistance to Soldering H	leat	MIL-STD-2	202	Method	210	Condition C				
Moisture Resistance		MIL-STD-2	202	Method	106	with 7B Sub-cy	cle			
Salt Atmosphere (corrosic	n)	MIL-STD-8	383	Method	1009	Condition A (24	hrs)			
Terminal Strength		MIL-STD-2	202	Method	211	Test Condition I	C			
Solderability		MIL-STD-8	383	Method	2003					

Method 215

Materials

Resistance to Solvents

- 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

MIL-STD-202

Products for Space Applications

Contact us for assistance with your specification. We will provide you with the technical support and the required documentation. Issue 11 12192023

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