

Simple Packaged Crystal Oscillator (SPXO)

High stability
Ceramic Package
Wide Band Freq.

Pb-free : RoHs compliance



SP-S5032C3

Typical applications

- DSC, Wireless LAN, Printer, FAX.

Features

- 10 to 168 MHz.
- Spread Spectrum Crystal Oscillator, C-MOS out (15pF).
- Low EMI Out Crystal Oscillator.
- Miniature type essential in the high density PCB.
- Package : Metal lid + Ceramic package.

5.0×3.2×1.15mm

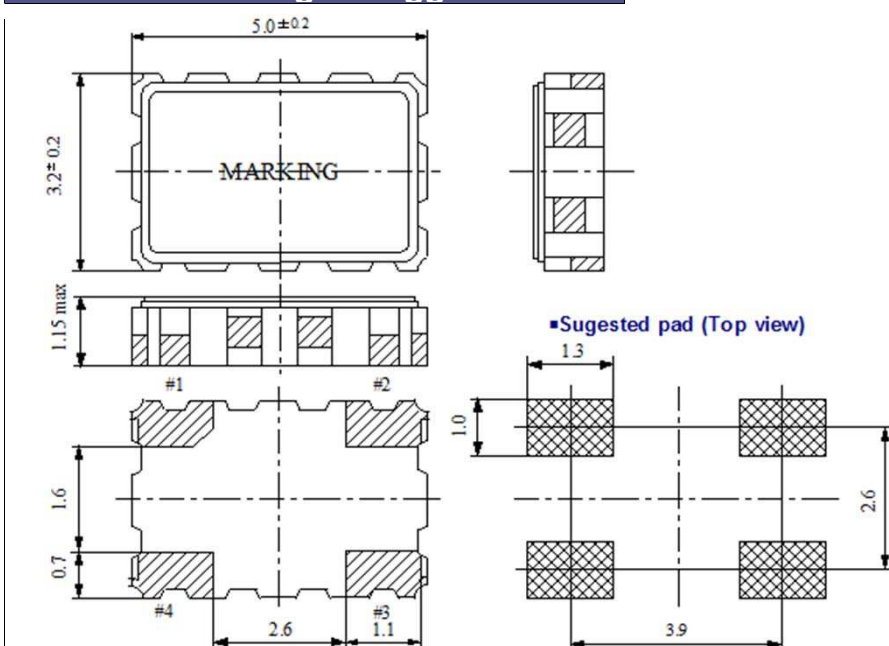
Specifications

Model		SP-S5032C3
Available Frequency Range		10.000 to 168.000 MHz
Frequency Stability		±50 ppm(-10 to +70° C)
Operating Temperature		-10 to +70° C
Storage Temperature		-40 to +85° C
Power Supply Voltage		3.0V±5% , 3.3V±5%
Power Supply Current Consumption		13mA max : ~27.9MHz 15mA max : ~79.9MHz T.B.D : ~ 168MHz
		±0.5 / ±1.0 / ±2.0%
		±1.0 / ±2.0 / ±4.0%
		C-MOS
Output	Level	15 pF max
	Load	Vol:0.1Vdd max., Voh:0.9Vdd min.
	Output Voltage	5ns max. At 10% to 90% Vdd
	Rise & Fall Time	40 to 60% at 1/2 Vdd
	Duty Cycle	200ps max. (F < 20MHz), 100ps max. (F ≥ 20MHz)
Tri state Function		#1 : N.C. or "H"→Output enable / #1 : "L"→Hi-Z(Output disable)

Environmental Characteristics

Description	Specification
Fall Shock	Test : 3 time free drop onto concrete board from 150cm high Result: ±5.0 ppm max.
Vibration Shock	Test : Freq. 5-500Hz, Amplitude 1.5mm, Test time 4cycles/XYZ axis Result: ±5.0 ppm max.
Solderability	Test : Immersed into solder bath at 235±° C for 3 sec. Result: More than 95%
Humidity	Test : 90 to 95%RH at 60±3° C±500 hours Result: ±5.0 ppm max.
Reflow Heat	Test : 2 times of IR reflow soldering in accordance with reflow temperature profile as per the document No.:TR-0531 Result: ±5.0 ppm max.

Outline Drawing & Suggested Pad



TERMINAL	CONNECTION
#1	CE
#2	GND
#3	OUTPUT
#4	Vdd