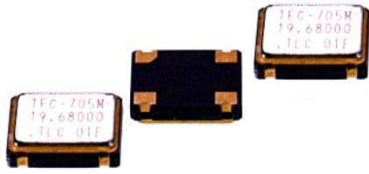


Simple Packaged Crystal Oscillator

(SPXO)

High stability
Ceramic Package
Wide Band Freq.

Pb-free: RoHS compliance



SP-S7050C

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.

Specifications

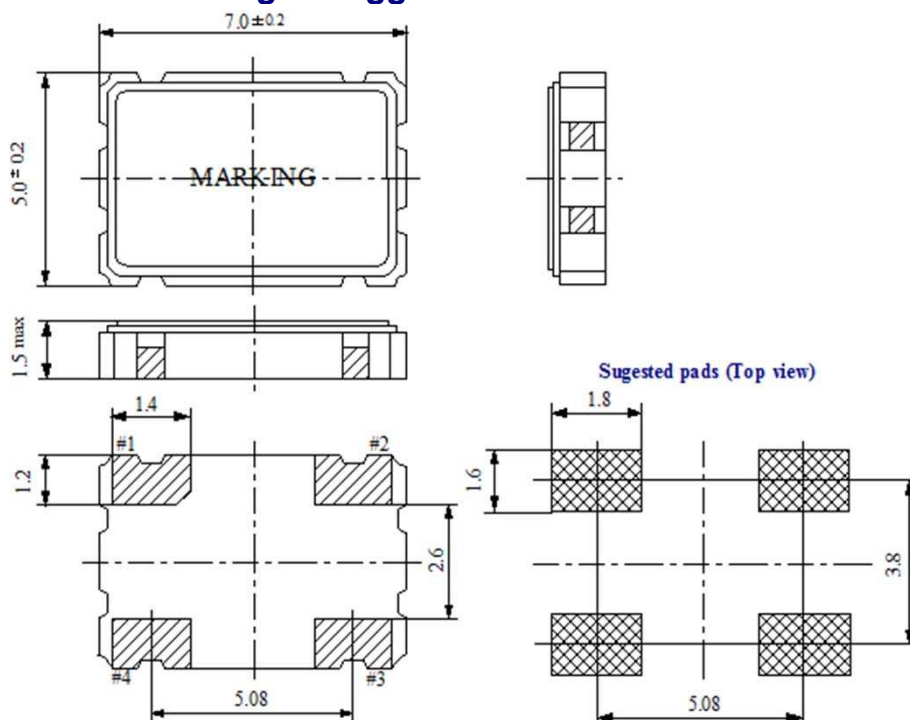
7.0x5.0x1.5mm

Model	SP-S7050C2	SP-S7050C3
Available Frequency Range	1.000 to 166.000 MHz	1.000 to 200.000 MHz
Frequency Stability	±50 ppm ±100 ppm	
Operating Temperature	-20 to +70° C , -40 to +85° C	
Storage Temperature	-40 to +85° C	
Power Supply Voltage	2.5V±5%	3.3V±5%
Power Supply Current Consumption	30mA max	
Spread Spectrum	Center Spread	±0.125% to ±2.0% 0.125% step
	Down Spread	- 0.250% to - 4.0% 0.250% step
Output	Level	C-MOS
	Load	15 pF max
	Output Voltage	Vol:0.1Vdd max.,Voh:0.9Vdd min.
	Rise & Fall Time	5ns max. At 10% to 90% Vdd
	Duty Cycle	40 to 60% at 1/2 Vdd
Cycle to Cycle Jitter	100ps max.	
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 profil as per the document No.:TR-053 Result: ±5.0 ppm max.

Outline Drawing & Suggested Pad



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