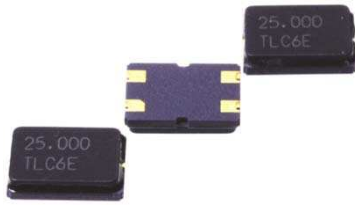


Simple Packaged Crystal Oscillator (SPXO)

High stability
Ceramic Package
Low Jitter

Pb-free : RoHs compliance



SP-7050CR3/CR5

Typical applications

- PC board, VGA card, DVD, DVC, DSC, Printer Scanner.

Features

- 1.0 to 200 MHz.
- C-MOS out / 15pF(50pF) Load.
- Data writing in EEPROM.
- Package : Ceramic lid + Ceramic package.
- 7.5×5.0×1.75mm

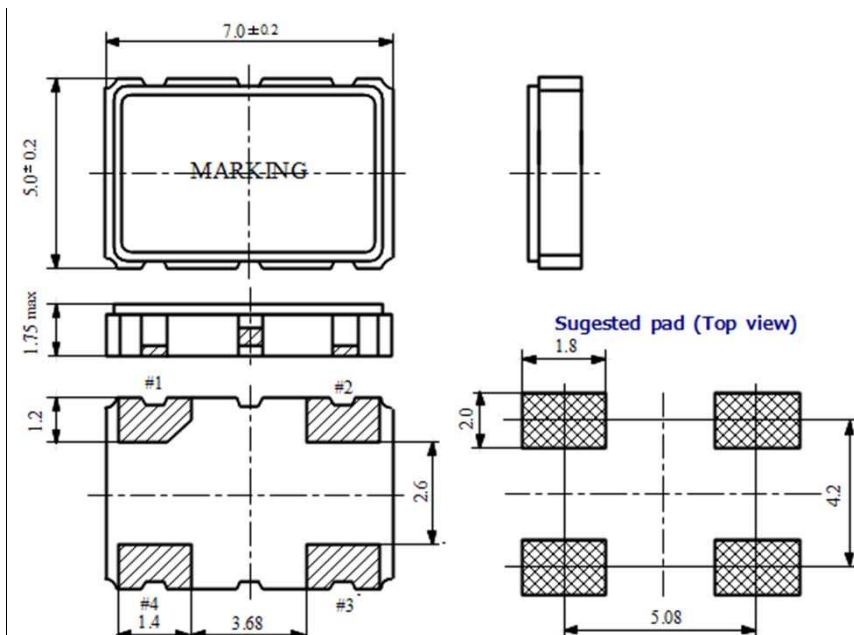
Specifications

Model	SP-7050CR3	SP-7050CR5	SP-7050CR3	SP-7050CR5
Available Frequency Range	1.000 to 200.000 MHz		1.000 to 80.000 MHz	
Frequency Stability	±50 ppm(-20 to+75° C), ±100 ppm(-40 to +85° C)			
Operating Temperature	-40 to +85° C			
Storage Temperature	-55 to +125° C			
Power Supply Voltage	3.0V/3.3V±5%	5.0V±5%	3.0V/3.3V±5%	5.0V±5%
Power Supply Current Consumption	30 mA max.	50 mA max.	20 mA max.	30 mA max.
Output	Level	C-MOS		C-MOS
	Load	15 pF max.		30 pF max.
Output Voltage	Vol:0.1Vdd max.,Voh:0.9Vdd min.			
Jitter	Jitter	100ps, 200ps, 250ps max.		
	Start-up Time	10ms		
Duty Cycle	1.0 to 80MHz:45 to 55% 1/2Vdd	45 to 55% at 1/2Vdd		
	80 to 200MHz:40 to 60% 1/2Vdd			
Jitter	100ps, 200ps, 250ps 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 profile as per the document No.:TR-0531 Result: ±5.0 ppm max.

Outline Drawing & Suggested Pad



TERMINAL	CONNECTION
#1	0E / CE
#2	GND
#3	OUTPUT
#4	Vdd