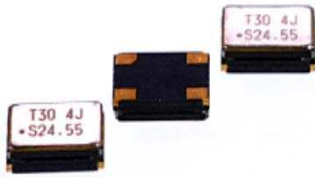


Simple Packaged Crystal Oscillator (SPXO)

Miniature &
Economical type
Ceramic Package

Pb-free : RoHs compliance



SP-3225C1 / 2 / 3

■ Typical applications

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

■ Features

- 0.625 to 75 MHz.
- C-MOS out / 15pF Load.
- Miniature type essential in the high density PCB.
- Package : Metal lid + Ceramic package.
- 3.2×2.5×1.0mm

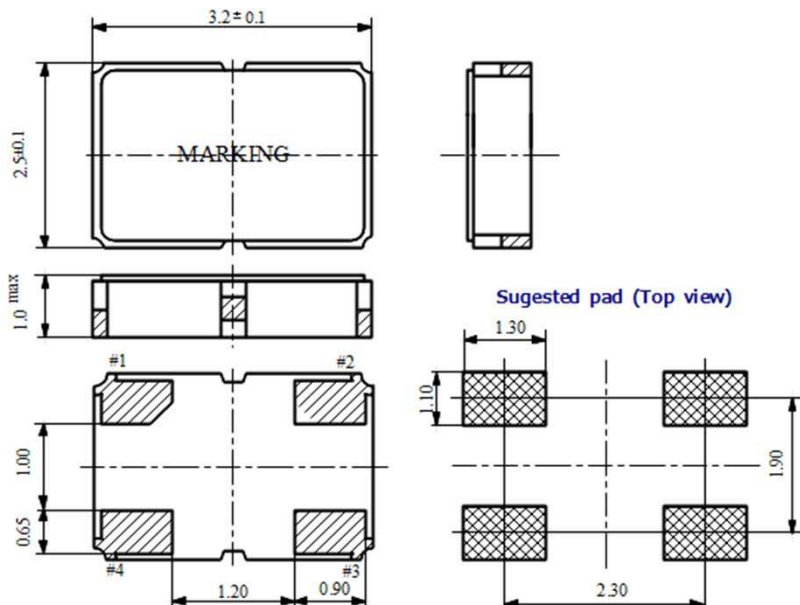
■ Specifications

Model		SP-3225C1	SP-3225C2	SP-3225C3	
Available Frequency Range		0.6250 to 75.000 MHz			
Frequency Stability		±30 ppm(-20 to +70° C) , ±50 ppm,±100 ppm(-40 to +85° C)			
Operating Temperature		-20 to +70° C , -40 to +85° C			
Storage Temperature		-55 to +100° C			
Power Supply Voltage		1.8 V±5%	2.5 V±5%	3.0 V±5%	3.3 V±5%
Power Supply Current Consumption		5mA max: ~20MHz		6mA max: ~20MHz	7mA max: ~20MHz
		9mA max: ~40MHz		11mA max: ~40MHz	13mA max: ~40MHz
		11mA max: ~60MHz		16mA max: ~60MHz	19mA max: ~60MHz
		14mA max: ~75MHz		20mA max: ~75MHz	24mA max: ~75MHz
Output	Level	C-MOS			
	Load	15 pF max.			
	Output Voltage	Vol : 0.1Vdd max. , Voh : 0.9Vdd min.			
	Rise & Fall Time	10ns max. at 10% to 90% Vdd			
	Duty Cycle	40 to 60% at 50% Vdd		45 to 55% at 50% Vdd	
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: ±1.0 ppm max.

■ Outline Drawing & Suggested Pad



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