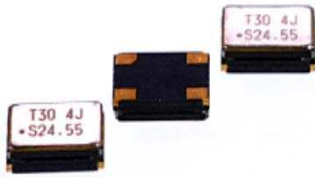


# Simple Packaged Crystal Oscillator (SPXO)

High stability  
Ceramic Package  
Low Jitter

Pb-free : RoHs compliance



## SP-3225HC2 / 3

### Typical applications

- PLC modem, WiMax, Wireless LAN, Wireless radios.

### Features

- 4.0 to 54 MHz.
- C-MOS out / 15pF Load.
- With built-in simple temperature amends circuit.
- Package : Metal lid + Ceramic package.
- 3.2×2.5×1.0mm

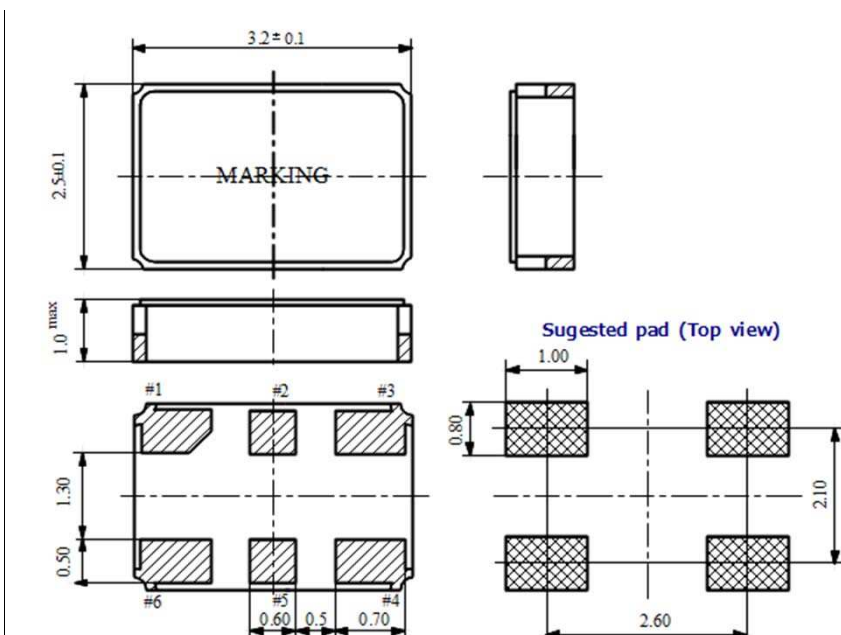
### Specifications

Model		SP-3225HC2	SP-3225HC3
Available Frequency Range		0.50 to 45.000 MHz	
Frequency Stability		±10 ppm (-40 to +85° C)	
Operating Temperature		-40 to +85° C	
Storage Temperature		-40 to +85° C	
Power Supply Voltage		2.5 V±5%	3.0V±5%, 3.3V±5%
Power Supply Current Consumption		10 mA max.	
Output		C-MOS	
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		45 to 55% at 50% Vdd	
Duty Cycle		#1 : N.C. or "H"→Output enable / #1 : "L"→Hi-Z(Output disable)	
Tri state Function			

### 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 temerature profil as per the document No.:TR-0531 Result: ±5.0 ppm max.

### Outline Drawing & Suggested Pad



TERMINAL	CONNECTION
#1	CE
#2	NC
#3	GND
#4	OUTPUT
#5	NC
#6	Vdd