

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD SMD3225-4 Crystal Resonator

7B040000M01

1. Scope:

1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 40MHz which will be used in crystal oscillator applications.



2. Construction:

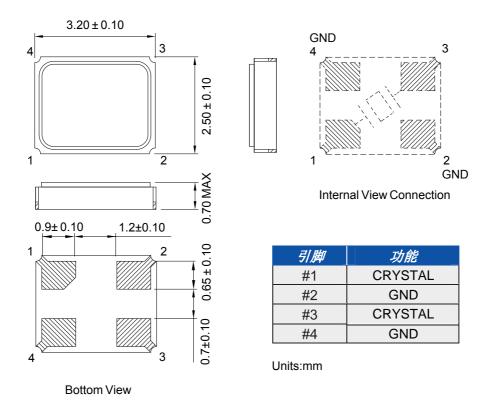
2.1 Type of Quartz Resonator: SMD3225-4pads

3. Electrical Characteristics

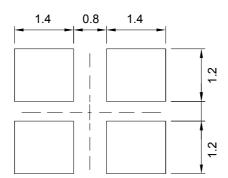
3.1	Nominal Frequency(f): 40MHz	
3.2	Load Capacitance(C _L):	12pF
3.3	Frequency Tolerance(△f/f):	±10ppm
3.4	Frequency Temperature Stability: ±20ppm	
3.5	Resonance Resistance(ohm): 25 ohms Max	
3.6	Osc mode:	Fundamental mode
	21 (2)	
3.7	Shunt Capacitance(C ₀):	2pF Max
	Shunt Capacitance(C_0): Drive Level(D_L):	2pF Max 100μW Max
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3.8 3.9	Drive Level(D _L):	100μW Max
3.8 3.9 3.10	Drive Level(D_L): Operating Temperature Range(T_{OPR}):	100μW Max -20 to + 70°C

	Item	Condition	Standard
1.	Drop characteristics	Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change:≤±5ppm Rr as specification
2	Mechanical shock	Device are shocked to half sine wave (1000g) three mutually perpendicular axes each 3 times	Frequency change:≤±5ppm Rr as specification
3.	Shake characteristics	Shake frequency 10~55Hz, cyc1~2 minutes, swing 1.5mm, direction x/y/z, all 30 minutes, test after 1 hours.	Frequency change:≤±5ppm Rr as specification
4.	Humidity characteristics	+40±2°C & 90%~95% R.H. 250 hours	Frequency change:≤±5ppm Rr as specification
5.	Low temperature characteristics	-40±2°C, 250 hours, put in room temperature, test after 1 hours.	Frequency change:≤±5ppm Rr as specification
6.	High temperature characteristics	+85±2°C, 250 hours, put in room temperature, test after 1 hours.	Frequency change:≤±5ppm Rr as specification
7.	Temperature cycling	-30±3℃/30±3 min~+85±2℃/30±3min, 5 cycles	Frequency change:≤±5ppm Rr as specification
8.	Refluence examination	200°C Max150°C 1.Max 180sec 2. Max 10 sec 3.Max 80 sec 4.Max 90 sec	Frequency change:≤±5ppm Rr as specification

Package Outline Dimensions



Suggested Pad Layout



Units:mm

Packing Specification

