

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD

SMD1612-4 Crystal Resonator

7E064000H01

- 1. Scope:
 - 1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 64.000MHz which will be used in crystal oscillator applications.

2. Construction:

3.

2.1Type of Quartz Resonator: SMD1612-4pads

Electrical Characteristics



64.000MHz

9pF

±10ppm

±20ppm

2pF Max

100µW Max

-20 to + 70°C

-55 to + 125°C

>500M ohms

±3ppm/Year Max

55 ohms Max

Fundamental mode

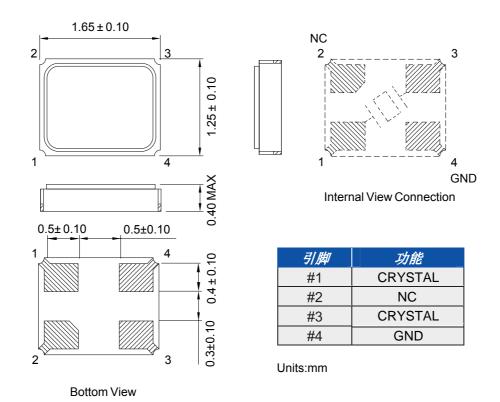
3.1	Nominal Frequency(f):	
3.2	Load Capacitance(C _L):	
3.3	Frequency Tolerance(\triangle f/f):	
3.4	Frequency Temperature Stability:	
3.5	Resonance Resistance(ohm):	
3.6	Osc mode:	
3.7	Shunt Capacitance(C ₀):	
3.8	Drive Level(D _L):	

- 3.9 Operating Temperature Range(T_{OPR}):
- 3.10 Storage Temperature Range(T_{STG}):
- 3.11 Insulation Resistance(IR):
- 3.12 Aging($\triangle f_A$):

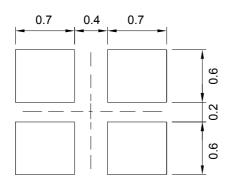
Reliability Specification

	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°C/30±3 min~+85±2°C/30±3min, 5 cycles	Frequency change:≤±5ppm Rr as specification
8.	Refluence examination	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

