

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD

SMD1612-4 Crystal Resonator

7E032768H01

- 1. Scope:
 - 1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 32.768MHz which will be used in crystal oscillator applications.



2. Construction:

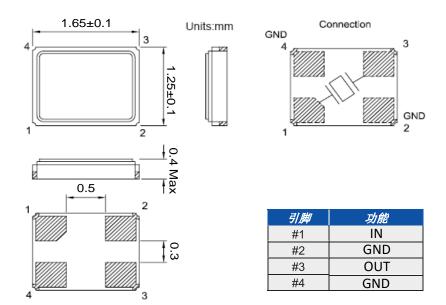
2.1Type of Quartz Resonator: SMD1612-4pads

3.	Electrical Characteristics	
3.1	Nominal Frequency(f):	32.768MHz
3.2	Load Capacitance(C _L):	9pF
3.3	Frequency Tolerance(\triangle f/f):	±10ppm
3.4	Frequency Temperature Stability:	±20ppm
3.5	Resonance Resistance(ohm):	55 ohms Max
3.6	Osc mode:	Fundamental mode
3.7	Shunt Capacitance(C ₀):	2pF Max
3.8	Drive Level(D _L):	100µW Max
3.9	Operating Temperature Range(T _{OPR}):	-20 to + 70°C
3.10	Storage Temperature Range(T _{STG}):	-55 to + 125°C
3.11	Insulation Resistance(IR):	>500M ohms
3.12	Aging($ riangle f_A$):	±3ppm/Year Max

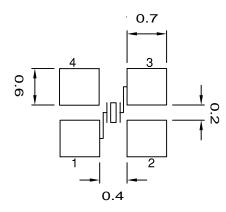
Reliability Specification

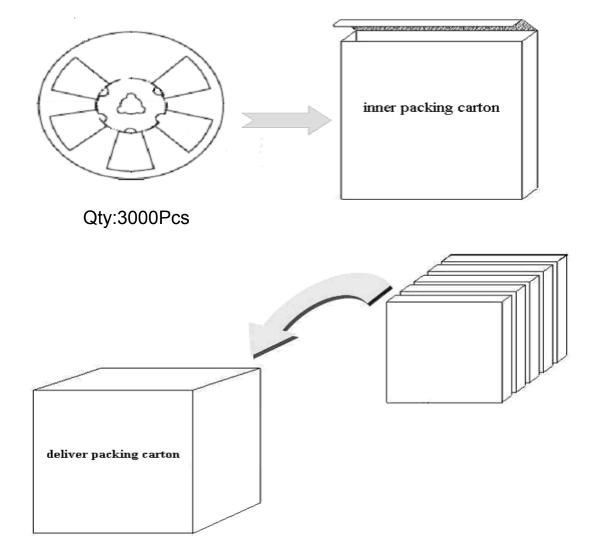
	Item	Condition	Standard
1.	Drop characteristics	Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change:≤±5ppm Rr as specification
2	Mechanical shock	Device are shocked to half sine wave (1000g) three mutually perpendicular axes each 3 times	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





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 ECS-HFR-20.00

 B-TR
 ECS-CR2-20.00-A-TR
 RO3164E-3
 ASR418S2-T
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 7B008000101

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 TAXM24M2ILDBET2T
 TAXM26M2IHDBET2T
 146-32.768-12.5-20-20/A
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 7B009843M01

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 S32400001B0730D1JB
 X252016MLB4SI
 Q24FA20H00389
 CSTLS16M0X54-B0
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