

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD

SMD2016-4 Crystal Resonator

7D024576H01

- 1. Scope:
 - 1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 24.576MHz which will be used in crystal oscillator applications.



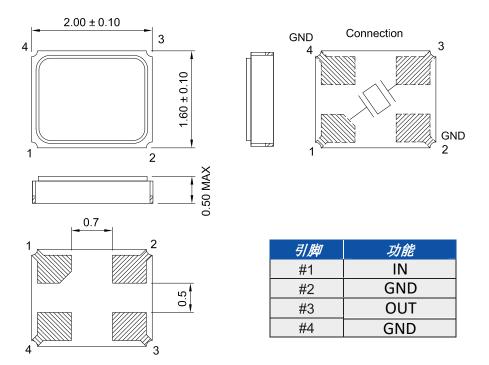
- 2. Construction:
- 2.1 Type of Quartz Resonator: SMD2016-4pads

3.	Electrical Characteristics	
3.1	Nominal Frequency(f):	24.576MHz
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):	50 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 \mathbf{f}_{A}$):	±3ppm/Year Max

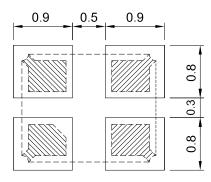
Reliability Specification

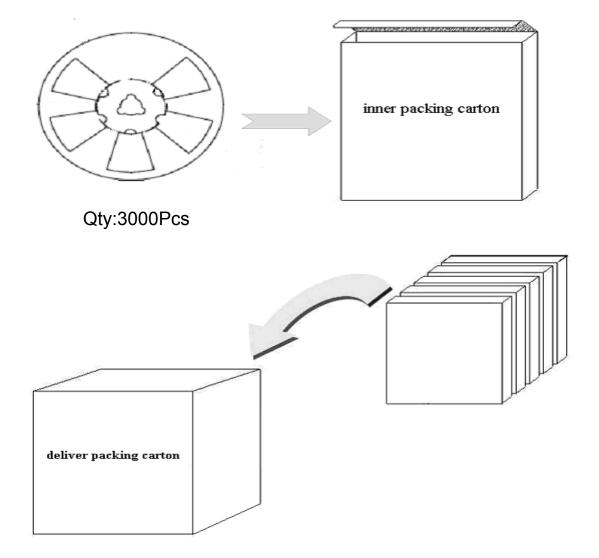
	Item	Condition	Standard
1.	Drop characteristics	Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change:≤±5ppm Rr as specification
2	Mechanical shock	Device are shocked to half sine wave (1000g) three mutually perpendicular axes each 3 times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





X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Resonators category:

Click to view products by HD-Crystal manufacturer:

Other Similar products are found below :

 B39431R820H210
 CSAC2.00MGCM-TC
 ECS-HFR-40.00-B-TR
 CSTLS4M00G53Z-A0
 ZTB455E
 ECS-CR2-16.00-A-TR
 ECS-HFR-20.00

 B-TR
 ECS-CR2-20.00-A-TR
 RO3164E-3
 ASR418S2-T
 CSTNE10M0G520000R0
 CSTLS8M00G53093-A0
 CSTNE12M0G52A000R0

 CSTLS18M4X54-A0
 CSTLS16M9X53Z-B0
 CSTLS24M0X51-A0
 CSTLS25M0X51-B0
 CSTLS18M0X51-B0
 CSTLS4M00G53093-A0

 CSTLS18M4X53-A0
 CSTNE16M0V510000R0
 CSTLS30M0X53-B0
 CSTLS33M8X53-B0
 CSTLS16M9X53-A0
 CSTLS6M40G56-B0

 CSTLS6M25G56-A0
 CSTNE14M7V510000R0
 CSTLS18M4X53-B0
 CSTLS33M0X51-B0
 CSTLS5M50G56-B0
 7B008000101

 7D038400101
 TAXM24M2ILDBET2T
 TAXM26M2IHDBET2T
 146-32.768-12.5-20-20/A
 3225-24.00-12-10-10/A
 7B009843M01

 CF4016M00009T8188042
 S32400001B0730D1JB
 X252016MLB4SI
 Q24FA20H00389
 CSTLS16M0X54-B0
 CSTLS4M19G56-B0

 9AC04194152080D2JB
 CST3.58MGW
 CSTCR4M91G55B-R0
 CSTLS3M68G56-B0
 \$2100327072090
 FC-12M32.768KHZ9PF20PPM

 7Y032768NW2
 CST
 CSTLS3M68G56-B0
 S2100327072090
 FC-12M32.768KHZ9PF20PPM