

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD SMD2016-4 Crystal Resonator

7D016000I01

1. Scope:

1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 16.000MHz which will be used in crystal oscillator applications.



2. Construction:

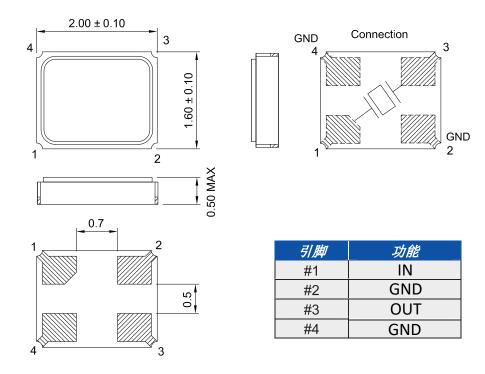
2.1 Type of Quartz Resonator: SMD2016-4pads

3. Electrical Characteristics

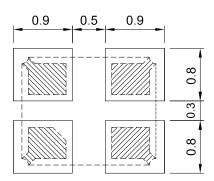
3.1	Nominal Frequency(f):	16.000MHz
3.2	Load Capacitance(C _L):	10pF
3.3	Frequency Tolerance(△f/f):	±10ppm
3.4	Frequency Temperature Stability:	±20ppm
3.5	Resonance Resistance(ohm):	100 ohms Max
3.6	Osc mode:	Fundamental mode
3.7	Shunt Capacitance(C ₀):	2pF Max
3.8	Drive Level(D _L):	100μW Max
3.9	Operating 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($\triangle f_A$):	±3ppm/Year Max

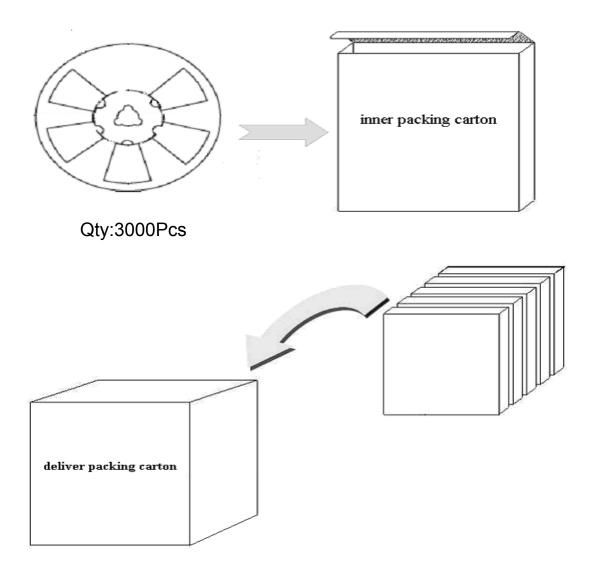
	Item	Condition	Standard
1.	Drop characteristics	Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change:≤±5ppm Rr as specification
2	Mechanical shock	Device are shocked to half sine wave (1000g) three mutually perpendicular axes each 3 times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





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 TD038400101 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 S2100327072090 FC-12M32.768KHZ9PF20PPM 7Y032768NW2