

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD

HC-49SMD Quartz Crystal

72008000RW1

- 1. Scope:
 - 1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 8.000MHz which will be used in crystal oscillator applications.



2. Construction:

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2.1 Type of Quartz Resonator: HC-49SMD

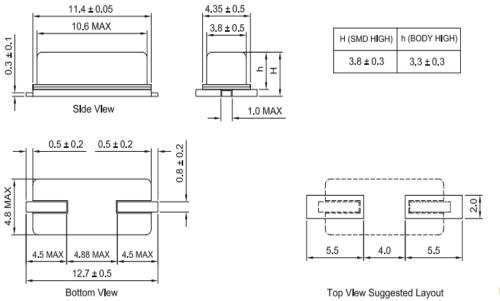
Electrical Characteristics	
Nominal Frequency(f):	8.000 MHz
Load Capacitance(C _L):	20pF
Frequency Tolerance($ riangle f/f$):	±20ppm
Frequency Temperature Stability:	±20ppm
Resonance Resistance(ohm):	80 ohms Max
Osc mode:	Fundamental mode
Shunt Capacitance(C ₀):	7pF Max
Drive Level(D _L):	100µW typical
Operating Temperature Range(T _{OPR}):	-20 to + 70°C
Storage Temperature Range(T _{STG}):	-55 to + 125°C
Insulation Resistance(IR):	>500M ohms
Aging($ riangle f_A$):	±5ppm/Year Max

3.12 Aging($\triangle f_A$):

Reliability Specification

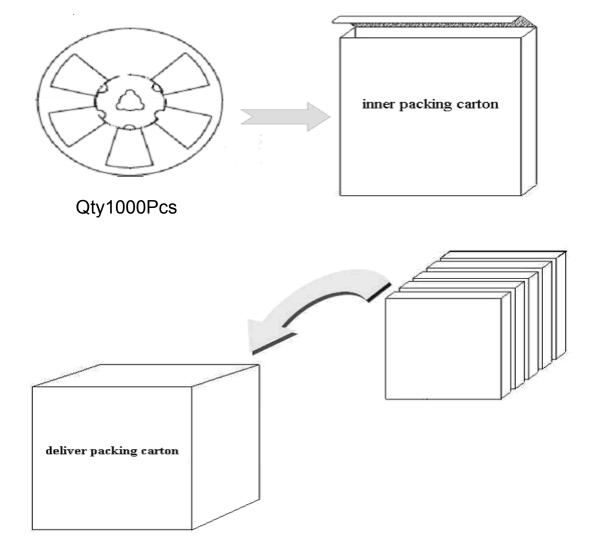
	Item	Condition	Standard
1.	Drop characteristics	Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.)	Frequency change:≤±5ppm Rr as specification
2	Mechanical shock	Device are shocked to half sine wave (1000g) three mutually perpendicular axes each 3 times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



Units: mm

Packing Specificatio



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 ECS-CR2-20.00-A-TR
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