

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD HC-M49SMD Quartz Crystal

75024000MW1

1. Scope:

1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 24.000MHz which will be used in crystal oscillator applications.



2. Construction:

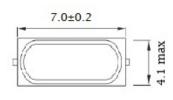
2.1Type of Quartz Resonator: HC-M49SMD

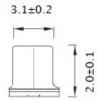
3. Electrical Characteristics

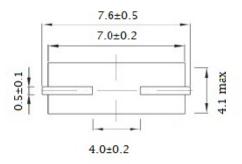
| 3.1 | Nominal Frequency(f): | 24.000MHz |
|------|---|------------------|
| 3.2 | Load Capacitance(C _L): | 12pF |
| 3.3 | Frequency Tolerance(△f/f): | ±20ppm |
| 3.4 | Frequency Temperature Stability: | ±20ppm |
| 3.5 | Resonance Resistance(ohm): | 30 ohms Max |
| 3.6 | Osc mode: | Fundamental mode |
| 3.7 | Shunt Capacitance(C ₀): | 7pF Max |
| 3.8 | Drive Level(D _L): | 100μW typical |
| 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($\triangle f_A$): | ±5ppm/Year Max |

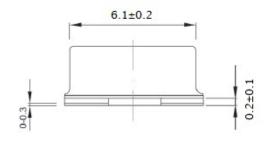
| | Item | Condition | Standard |
|----|-------------------------------------|--|--|
| 1. | Drop characteristics | Free drop from 75cm height on a hard wooden board for 3 times. (Board is thickness more than 30 mm.) | Frequency change:≤±5ppm Rr as specification |
| 2 | Mechanical shock | Device are shocked 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 |

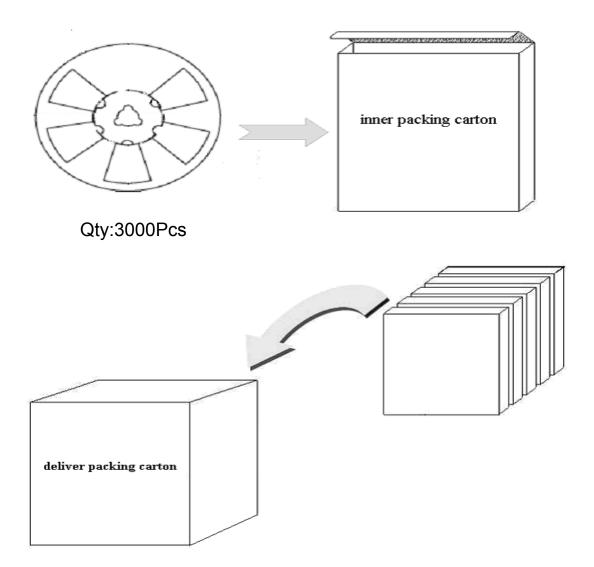
Package Outline Dimensions











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