

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD

HD308 Quartz Crystal

7Q032768NW2

- 1. Scope:
 - 1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 32.768KHz which will be used in crystal oscillator applications.
 - 2. Construction:
 - 2.1 Type of Quartz Resonator: HD308
 - 3. Electrical Characteristics
 - 3.1 Mode of Vibration:
 - 3.2 Nominal frequency(F):
 - 3.3 Load Capacitance(CL):
 - 3.4 Frequency Tolerance at 25 °C
 - 3.5 Frequency Temperature Stability:
 - 3.6 Series Resistance(Rr):
 - 3.7 Quality Factor(Q):
 - 3.8 Turnover Temperature(To):
 - 3.9 Operation Temperature:
 - 3.10 Preservation Temperature:
 - 3.11 Shunt Capacitance(C₀):
 - 3.12 Capacitance Ratio(Co/C1):
 - 3.13 Insulation Resistance:
 - 3.14 Drive Level:

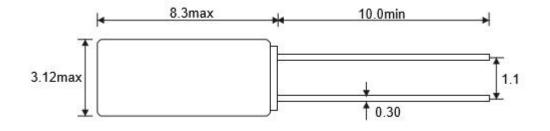


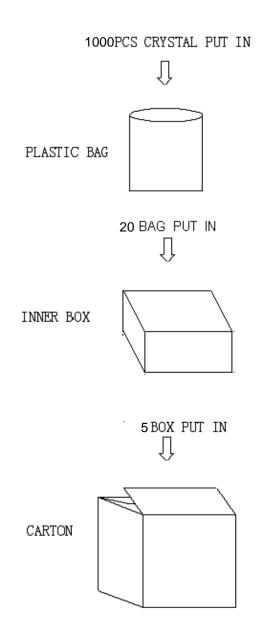
+2°X-cut , Fundamental
32.768KHz
12.5pF
±20ppm
-0.04* 10 ⁻⁶ /℃ ² Max
50 KΩ Max
60K TYP
25 ℃± 5℃ -20 ℃~ +70 ℃
-40 °C∼ +85 °C
0.8PF Typical
500 Typical
500MΩ at DC 100V±10V
1μW

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





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