

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD

SMD7015 Quartz Crystal

7L032768NW2

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: SMD7015

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(C₀/C₁):

3.13 Insulation Resistance:

3.14 Drive Level:

+2°X-cut, Fundamental

32.768KHz

12.5PF

±20ppm

-0.04* 10⁻⁶/°C² Max

65 KΩ Max

60K TYP

25 ℃± 5℃

-20°C~+70°C

-55 ℃~ +125℃

0.8PF Typical

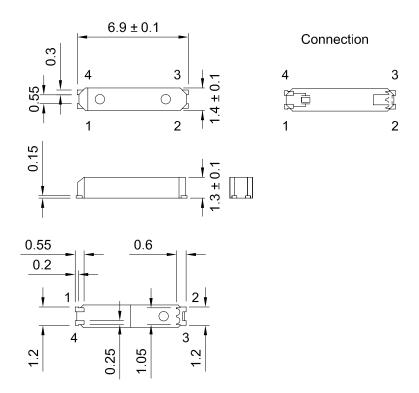
500 Typical

 $500 M\Omega$ at DC $100 V \pm 10 V$

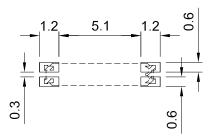
1μW Max

	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°C/30±3 min~+85±2°C/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

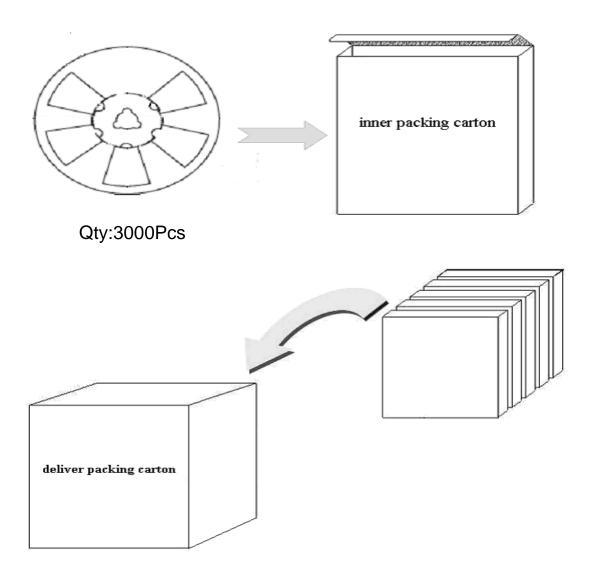
Package Outline Dimensions



Suggested Pad Layout



Packing Specificatio



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