

JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD SMD3215-2 Crystal Resonator

7N032768HW2

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:

3.14 Drive Level:

2.1 Type of Quartz Resonator: SMD3215-2pads

3. Electrical Characteristics

3.1	Mode of Vibration:	+2°X-cut , Fundamental	
3.2	Nominal frequency(F):	32.768KHz	
3.3	Load Capacitance(C _L):	9PF	
3.4	Frequency Tolerance at 25 °C	±20ppm	
3.5	Frequency Temperature Stability:	-0.04* 10 ⁻⁶ /°C² Max	
3.6	Series Resistance(Rr):	70 KΩ Max	
3.7	Quality Factor(Q):	60K TYP	
3.8	Turnover Temperature(To):	25 ℃± 5℃	
3.9	Operation Temperature:	-40°C ~ +85°C	
3.10	Preservation Temperature:	-55℃~ +125℃	
3.11	Shunt Capacitance(C ₀):	0.8PF Typical	
3.12	Capacitance Ratio(C ₀ /C ₁):	500 Typical	
3.13	Insulation Resistance:	$500 M\Omega$ at DC $100 V \pm 10 V$	

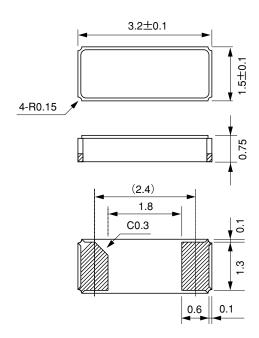
www.hd- crystal.com 1 Rev .1.1

0.5μW 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

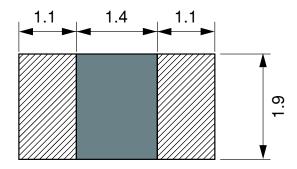
Units:mm



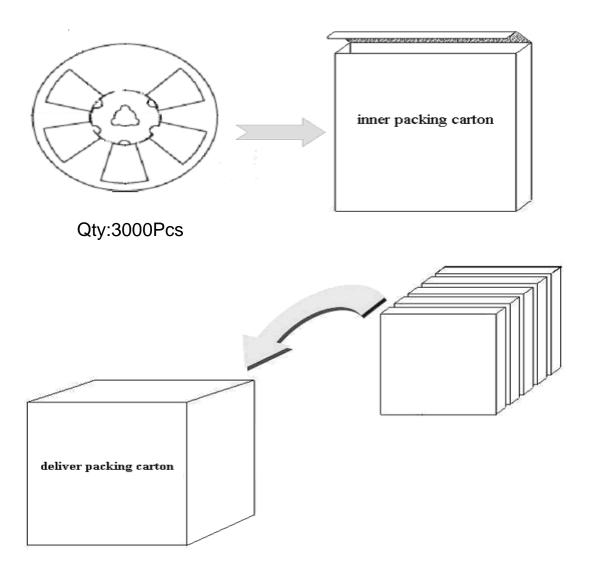
Connection



Suggested Pad Layout



Packing Specification



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