

江苏浩都频率科技有限公司 JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD

Specifications For Product

Quartz Crystal	
HD206/32.768KHZ/ 12.5PF	
7S032768NW2	
A/1	



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Specification Revision Record Sheet

Rev.	Revise page	Revise Contents	Date	Ref. No.	Reviser
A/0	N/A	Initial released	2018/3/30	N/A	吴佳斌
A/1	N/A	P/N revision	2020/1/1	N/A	吴佳斌

7S032768NW2

- 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: HD206
 - 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:

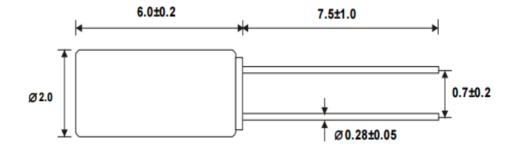


+2°X-cut , Fundamental				
32.768KHz				
12.5PF				
±20ppm				
-0.04* 10 ⁻⁶ /℃ ² Max				
70 KΩ Max				
60K TYP				
25 ℃± 5℃				
-40 °C ~ + 85 °C				
-55 °C∼ +125°C				
0.8PF Typical				
500 Typical				
500M Ω at DC 100V±10V				
1μW				

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



Packing Specification

