

江苏海德频率科技有限公司 JIANGSU HD-CRYSTAL TECHNOLOGY CO., LTD

Specifications For Product

TYPE :		Quartz Crystal Resonator		
SPEC :		3225/11.2896M/10PF		
P/N :		7B011289101		
VER :	R :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

7B011289I01

- 1. Scope:
 - 1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 11.2896MHz which will be used in crystal oscillator applications.



- 2. Construction:
 - 2.1 Type of Quartz Resonator: SMD3225-4pads

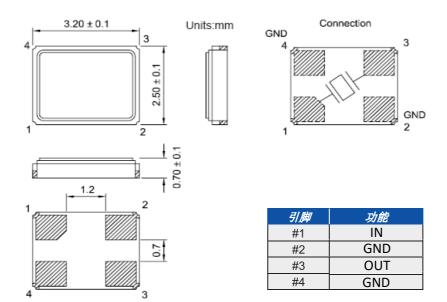
3. Electrical Characteristics

3.1	Nominal Frequency(f):	11.2896MHz
3.2	Load Capacitance(C _L):	10pF
3.3	Frequency Tolerance(\triangle f/f):	±10ppm
3.4	Frequency Temperature Stability:	±20ppm
3.5	Resonance Resistance(ohm):	100 ohms Max
3.6	Osc mode:	Fundamental mode
3.7	Shunt Capacitance(C ₀):	2pF Max
3.8	Drive Level(D _L):	100µW Max
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($ riangle f_A$):	±3ppm/Year Max

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 three mutually perpendicular axes each 3		Frequency change:≤±5ppm Rr as specification
3.	Shake characteristicsShake 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



Suggested Pad Layout

