

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 |
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- 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

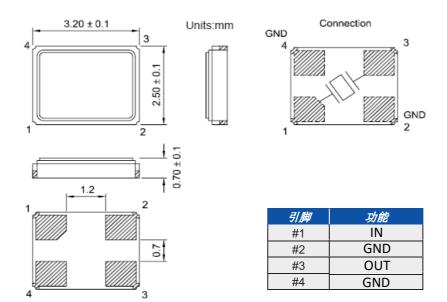
3. Electrical Characteristics

| 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

