

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: 1612/32M/8PF

P/N : 7E032000F01

VER: A/1

R&D APPR.SIGNATURED			DEPT
ISSUE	CHECK	APPROVAL	神経
吴佳斌	秋城場	主献点	生技部

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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

Product Descipion

7E032000F01

1. Scope:

1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 32.000MHz which will be used in crystal oscillator applications.



2. Construction:

2.1Type of Quartz Resonator: SMD1612-4pads

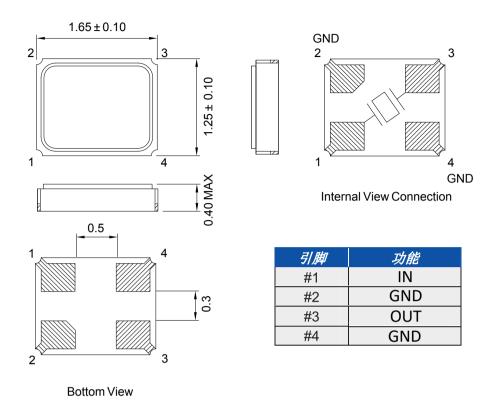
3. Electrical Characteristics

3.1 Nominal Frequency(f): 32.000MHz 3.2 Load Capacitance(C₁): 8pF 3.3 Frequency Tolerance(△f/f): ±10ppm 3.4 Frequency Temperature Stability: ±20ppm 3.5 Resonance Resistance(ohm): 55 ohms Max 3.6 Osc mode: Fundamental mode 3.7 Shunt Capacitance(C₀): 2pF Max 3.8 Drive Level(D₁): 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 ±3ppm/Year Max 3.12 Aging($\triangle f_A$):

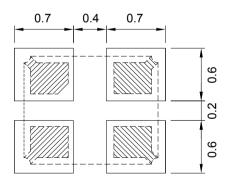
Reliability Specification

	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	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	

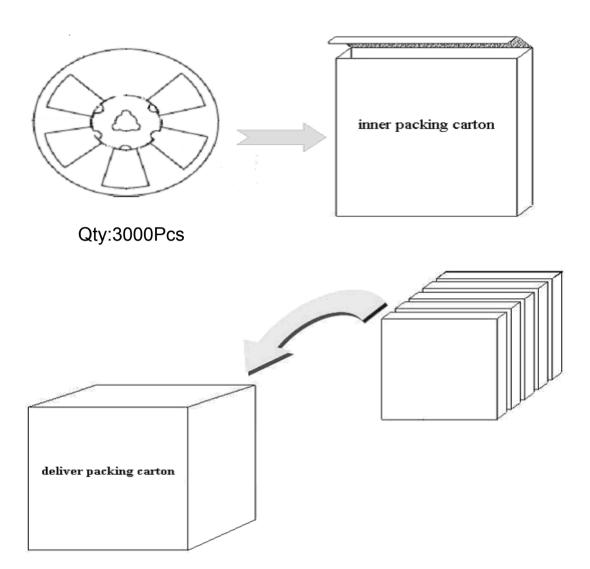
Package Outline Dimensions



Suggested Pad Layout



Packing Specificatio



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