

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 3225/20M/10PF

SPEC : 3225/20M/10PF

P/N : _____7B020000I11

VER:

R&D APPR.SIGNATURED			DEPT
ISSUE	CHECK	APPROVAL	はは
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

7B020000I11

1. Scope:

1.1 This specification applies to the RoHS compliance quartz crystal unit with a frequency of 20.000MHz which will be used in crystal oscillator applications.



2. Construction:

2.1 Type of Quartz Resonator: SMD3225-4pads

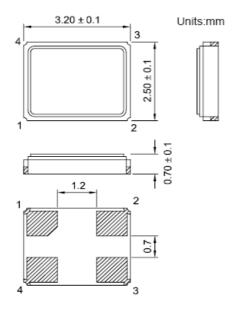
3. Electrical Characteristics

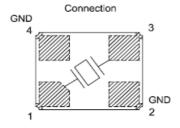
3	3.1	Nominal Frequency(f):	20.000MHz
3	3.2	Load Capacitance(C _L):	10pF
3	3.3	Frequency Tolerance(△f/f):	±20ppm
3	3.4	Frequency Temperature Stability:	±20ppm
3	3.5	Resonance Resistance(ohm):	30 ohms Max
3	3.6	Osc mode:	Fundamental mode
3	3.7	Shunt Capacitance(C ₀):	2pF Max
3	3.8	Drive Level(D _L):	100µW Max
3	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	$Aging(\triangle f_A)$:	±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 (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

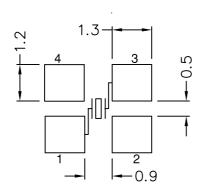
Package Outline Dimensions



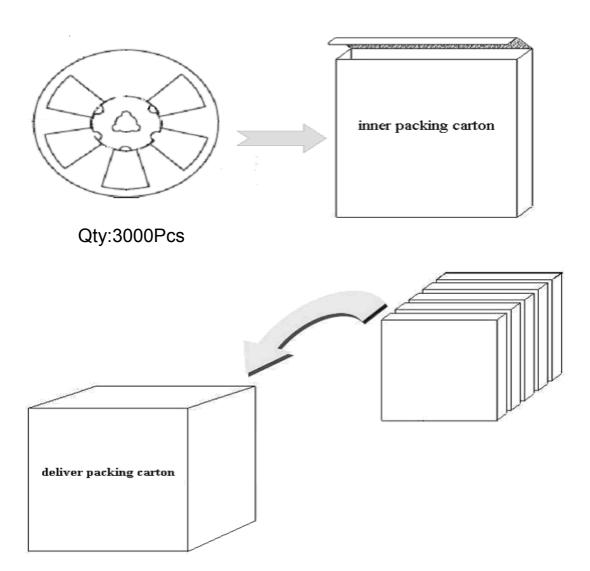


引脚	功能
#1	IN
#2	GND
#3	OUT
#4	GND

Suggested Pad Layout



Packing Specification



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