

Quartz Crystal



SERIES 612 GLASS SEALED CERAMIC5*3.2mm 2PAD SURFACE MOUNT PACKAGE

Approved by:
Checked by:
Issued by:

SPECIFICATION

MODEL: 6I20008000M18020231J

深圳市晶科鑫实业有限公司

SHENZHEN CRYSTAL TECHNOLOGY INDUSTRIAL CO., LTD.

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FEATURE

- Ultra thin, thickness 1.0mm
- Leadless. type
- High precision characteristic covering up high frequency range.
- Automatic mounting
- Emboss taping specification.
- Suitable for reflow soldering
- Available on tape and reel ,1000pcs per reel

APPLICATIONS

- Ideally suited designed for disc drives, NB, PCs and hand-held electronic products

ELECTRICAL SPECIFICATIONS

Output Frequency Range	8.000MHz
Mode	Fundamental / AT
Frequency Tolerance (at 25°C)	±20ppm
Frequency Stability Over Operating Temperature Characteristics	±30ppm
Storage Temperature Range	-40 °C to +85 °C
Operating Temperature Range	-20 °C to + 70 °C
Shunt Capacitance (C ₀)	5.0 pF Max
Driver Level (Typical)	10μW
Load Capacitance(C _L)	18Pf
Equivalent Series Resistance ESR (Ω)	50Ω
Aging @25°C 1 st year (Max)	±3ppm/year
Shock Resistance	Drop test of 3 times on 2mm stainless plate from 75cm height

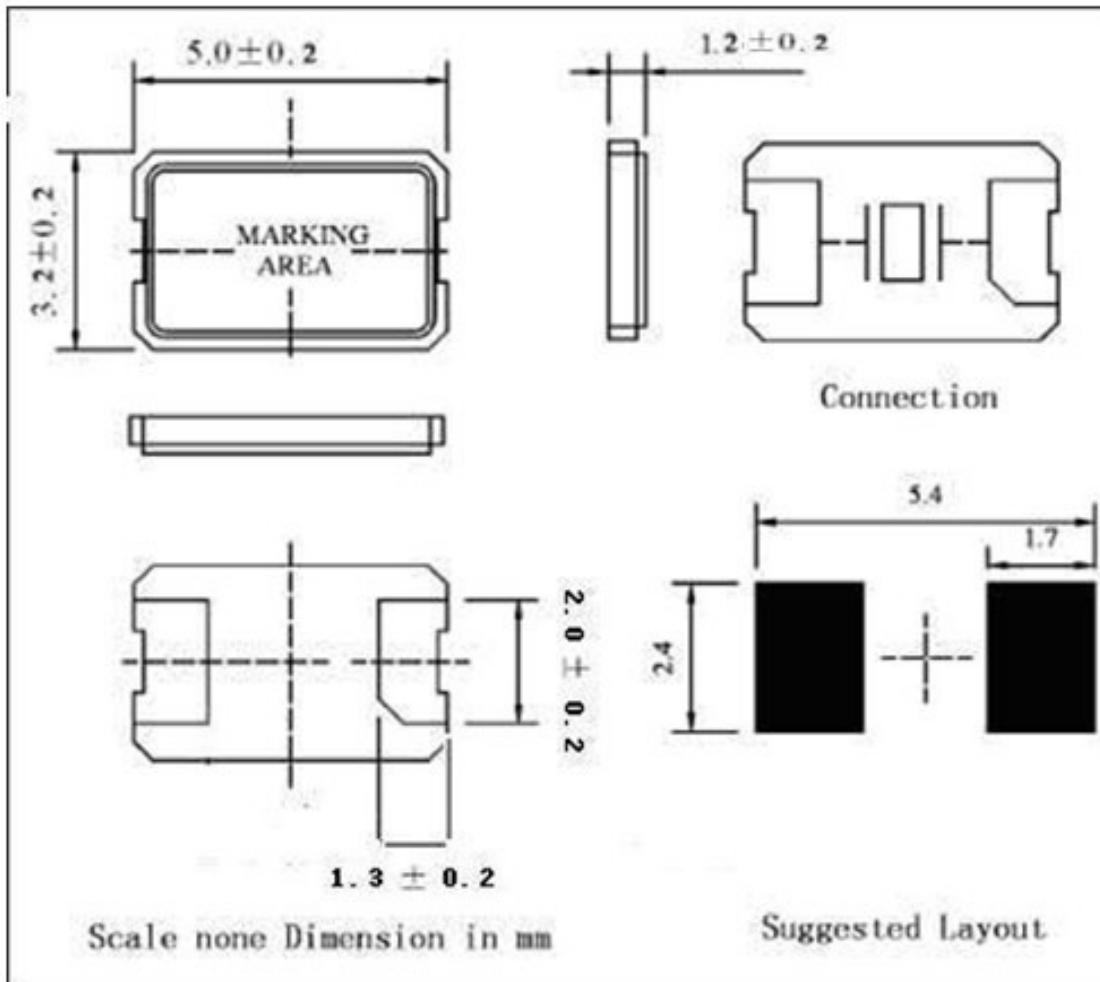
REMARK: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. PLEASE CONFIRM WITH OUR SALES ENGINEER.

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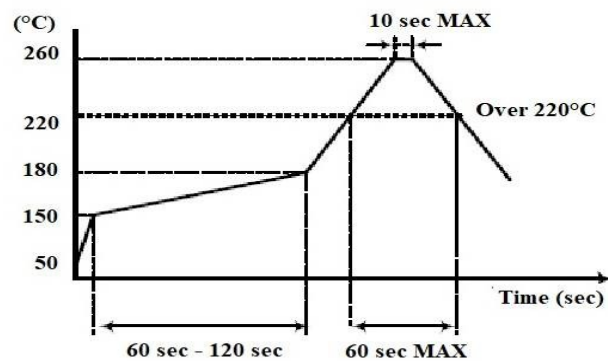


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Dimension



Reflow Condition



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RELIABILITY TEST SPECIFICATION

Test item	Equipment	Condition	Specification
1.SOLDERABILITY TEST	TBAEI ESPEC(K-1425-14D)	Welding can be temperature: 260 ± 5 °C, 5' s(125 °C, 120 SEC preheating Anti-welding temperature: 260 ± 5 °C, soaking time: 10 seconds	MIL-STD-883E Method 2003.7
2. HERMETICITY TEST	Helium leak detectors	1. Small leak: 4.5 KGF/CM2 2hours1 * 10^{-9-9} PA.M3/SEC crude leak: 4.5KGF/CM2 2hours1.5 * 10^{-5} PA.M3/SEC	MIL-STD-883E Method 1014.10
3. VIBRATION TEST	Sweep vibration test machines (IMV CO. (VS-300-2)), S & A250B	1 Crystal on 10-2000 Hz, X, Y, Z water level, each 20-minute vibration, a test every four hours, then the sample used to test 250 b	MIL-STD-883E Method 2007.3
4. MECHANICAL SHOCK	TOOL	A high degree of crystal from 150 CM to 150 g of three directions from the direction of impact X.Y.Z3 work hard wooden board	JIS C6701
5.MECHANICAL IMPACT TEST	TOOL	c1000G, 0.5Msec, 3, from the X, Y, Z three-day direction of hard wood boards, then the sample used to test 250 B	MIL-STD-202F Method 213B
6. DROP TEST	Fell hard wood equipment, S & A 250B	Crystal 75 cm in height, falling three times in the hard wooden board	JIS C6701
7. SALT SPRAY	H-SST-60、RC-328A	5% NaCL (sodium carbonate), 35 ± 2 °C temperature of the box, 48 hours, PH value: 6.5 to 7.2	
8. HIGH&LOW TEMP STORAGE TEST	TABEL ESPEC(MC-810), S&A 350B/250B	High temperature: 125 ± 2 °C, 500 hours; low temperature: -40 ± 3 °C, 500hours	MIL-STD-883E Method 1005.8
9. TEMP & HUM CYCLING TEST	TABEI ESPEC (TPC-211) S&A350B/250B	Temperature: $121 + / -3$ °C RH100% 2BAI, 240hours	JIS C6701
10. HIGH TEM. & HUM. STORAGE TEST	TBAEL ESPEC (PH-3F), S&A350B/250B	Temperature: 40 ± 2 , Humidity: 85 +3, - 2%, storage 96 hours	JIS C5023
11 AGING TEST	PRA(2360)	Temperature: 85 ± 3 °C, 1000hours	JIS C6701