

# QUARTZ CRYSTAL UNIT

*SERIES 7I, SEAM SEALED CERAMIC 5 X 3.2mm Surface Mount Package*

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Approved by:
Checked by:
Issued by:

## SPECIFICATION

**MODEL: 7I0008000M20020231J**

**深圳市晶科鑫实业有限公司**  
**SHENZHEN CRYSTAL TECHNOLOGY INDUSTRIAL CO., LTD.**

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**SERIES 7I, SEAM SEALED CERAMIC 5 X 3.2mm Surface Mount Package**

## FEATURE

- Ultra thin, thickness 1.0mm
- Leadless type
- High precision characteristic covering up to high frequency range
- Automatic mounting
- Embossed taping specification
- Suitable for Reflow soldering

## ELECTRICAL SPECIFICATIONS

Output Frequency Range	8.00MHz
Mode	AT/Fundamental
Frequency Tolerance (at 25°C)	±30ppm
Frequency Stability Over Operating Temperature Characteristics	±30ppm
Operating Temperature Range	-20 °C to +70 °C
Storage Temperature Range	-40 °C to +85 °C
Shunt Capacitance (C <sub>0</sub> )	5.0 PF Max
Driver Level (Typical)	100μW
Load Capacitance(C <sub>L</sub> )	20 PF
Equivalent Series Resistance ESR (Ω)	80 Ω Max
Aging @25°C 1 <sup>st</sup> year (Max)	±2ppm/year

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

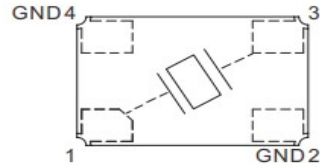
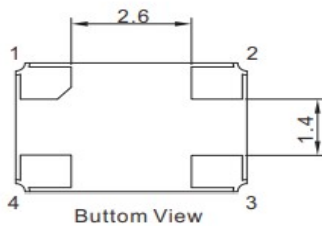
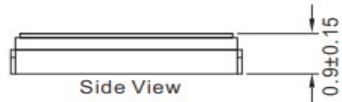
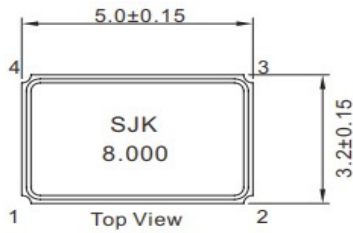
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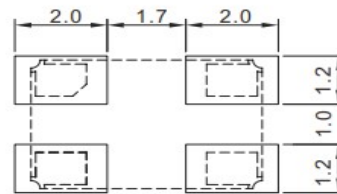


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## Dimension

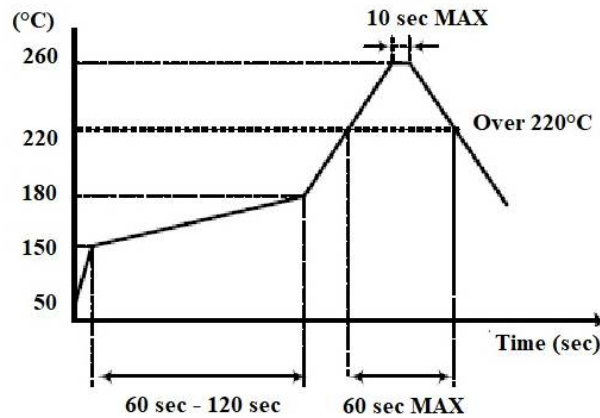


Top View Crystal Connection



Top View Suggested Layout

## Reflow Condition



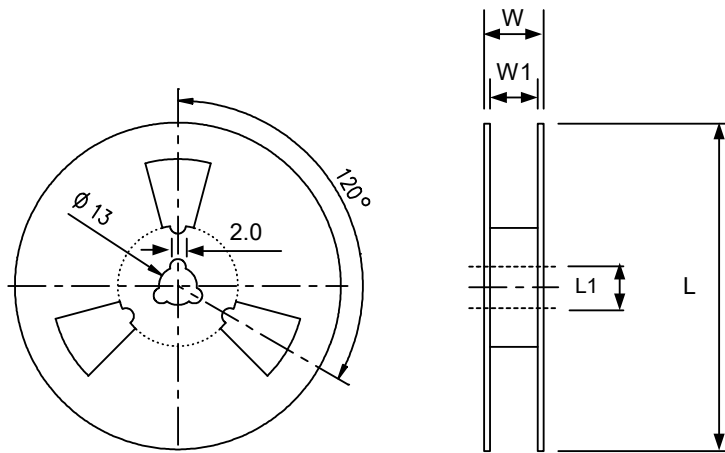
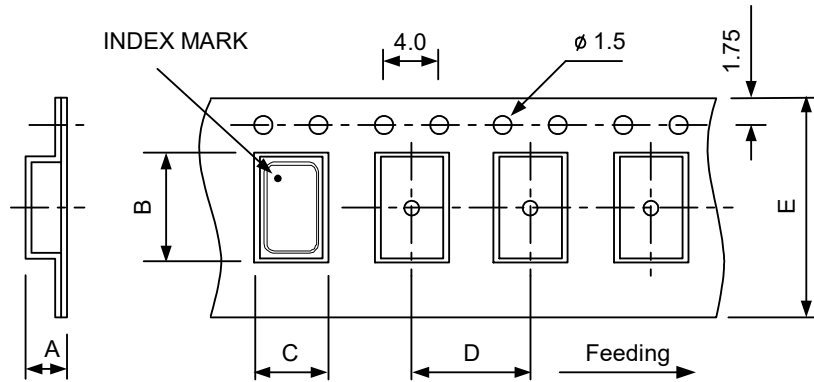
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SERIES 71, SEAM SEALED CERAMIC 5 X 3.2mm Surface Mount Package

## PACKING



DIMENSIONS		A	B	C	D	E	L	L1	W	W1	pcs / Reel
	7050	2.15	7.9	5.4	8.0	16	180	13	21.5	17.5	1K
6035	1.4	6.4	3.9	8.0	12	180	13	15.4	13	1K	
5032	1.46	5.5	3.6	8.0	12	180	13	15.4	13	1K	
4025	1.5	4.4	8.0	2.8	13	176	13	13.5	12	3K	
3225	1.4	3.4	2.7	4	8	178	13	11.5	8	3K	

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# QUARTZ CRYSTAL UNIT



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## RELIABILITY TEST SPECIFICATION

Test item	Equipment	Condition	Specification
1.SOLDERABILITY TEST	TBAEI ESPEC(K-1425-14D)	Welding can be temperature: $260 \pm 5$ °C, 5' s( $125$ °C, 120 SEC preheating Anti-welding temperature: $260 \pm 5$ °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 months from the direction of impact XYZ3 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), $35 \pm 2$ °C temperature of the box, 48 hours, PH value: 6.5 to 7.2	
8. HIGH&LOW TEMP STORAGE TEST(Static test)	TABEL ESPEC(MC-810), S&A 350B/250B	High temperature: $125 \pm 2$ °C, 500 hours; low temperature: $-40 \pm 3$ °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: $40 \pm 2$ , Humidity: 85 +3, -2%, storage 96 hours	JIS C5023
11. AGING TEST	PRA(2360)	Temperature: $85 \pm 3$ °C, 1000hours	JIS C6701

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