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# SPECIFICATION

**SJK P/N: 7U08000MAB1430K2**

**深圳市晶科鑫实业有限公司**

**SHENZHEN CRYSTAL TECHNOLOGY INDUSTRIAL CO., LTD.**

Add: 12F, Bldg. 3C, TianAn Cloud Park Phase 1, Bantian, Longgang, Shenzhen 518129, China

Tel: (86) 755 88352809 88352810 Fax: (86) 755 88353718 88352499

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# Crystal Resonators



## SMD Seam 3.2×2.5×0.7 7U Series

### FEATURE

- Reliable seam sealed ceramic package.
- Wide operating temperature range.
- Superior performance and stringent reliability in harsh environment.
- Application: TPMS, ECM, ABS and sensor modules.
- Compact size.
- RoHS Compliant / Pb Free.

### ELECTRICAL SPECIFICATIONS

Output Frequency Range	8.000MHz
Mode	AT/Fundamental
Frequency Tolerance (at 25°C)	±20ppm
Frequency Stability Over Operating Temperature Characteristics	±50ppm
Operating Temperature Range	-40 °C to +85 °C
Storage Temperature Range	-40 °C to +85 °C
Shunt Capacitance (C0)	5.0 PF Max
Driver Level (Typical)	100μW
Load Capacitance(CL)	12PF
Equivalent Series Resistance(ESR)	400 Ω Max
Aging @25°C 1st year (Max)	±3ppm/year

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

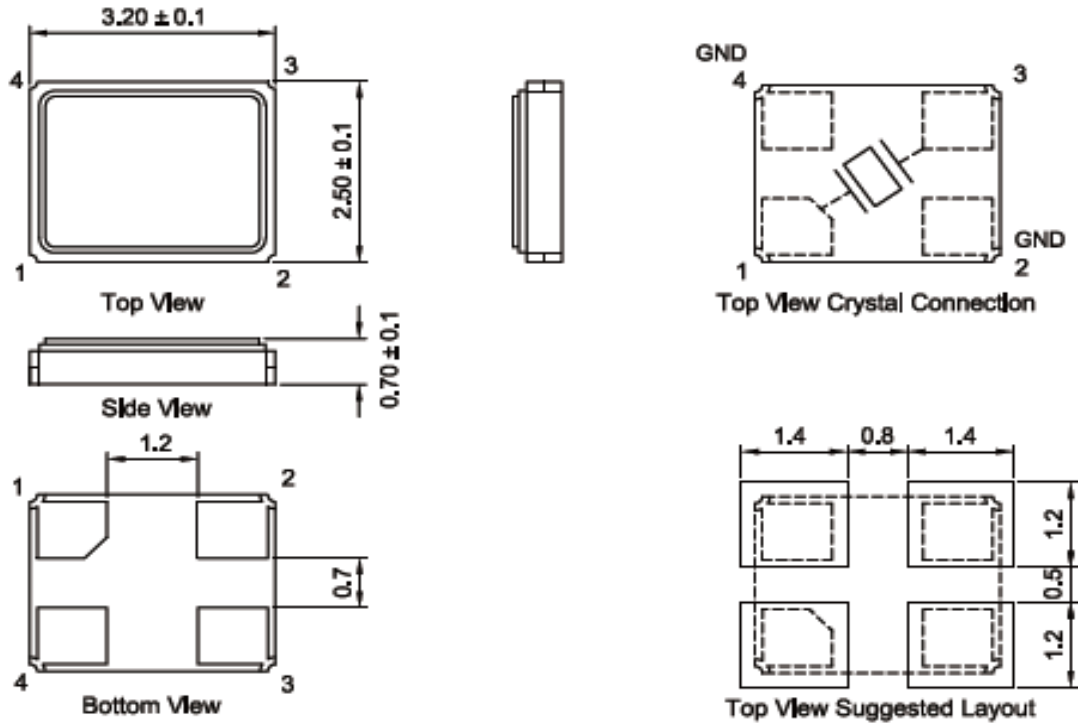
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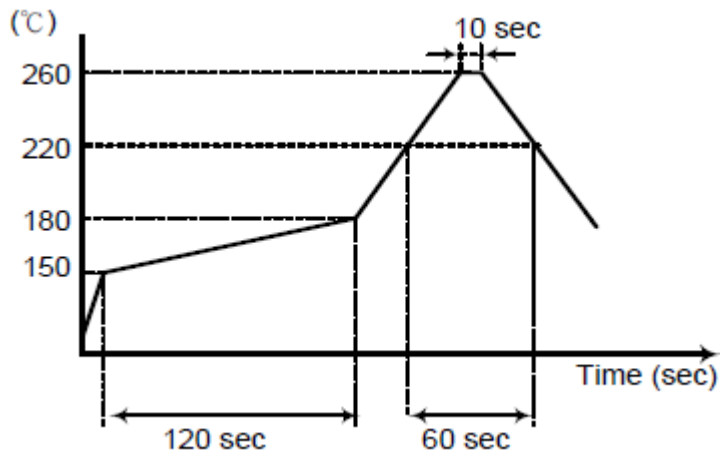


SMD Seam 3.2×2.5×0.7 7U Series

## Dimension



## REFLOW CONDITION



Total time : 200 sec. Max. Solder melting point :220 °C

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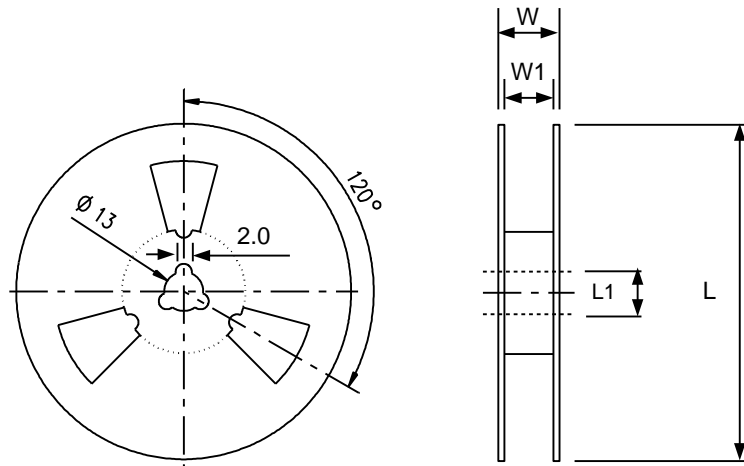
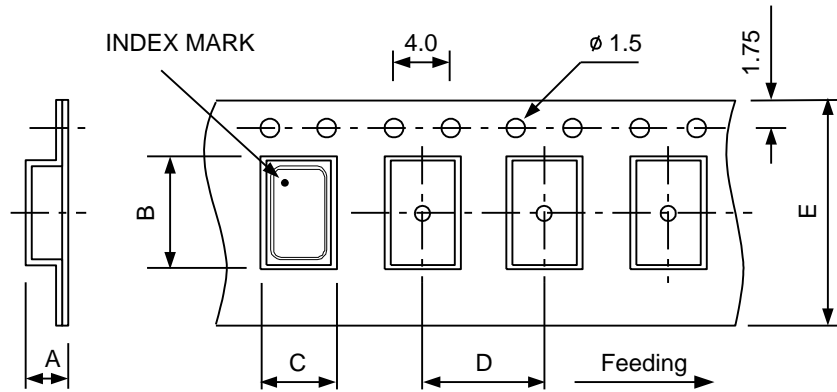
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## PACKING



DIMENSIONS		A	B	C	D	E	L	L1	W	W1	pcs / Reel
	7050	2.15	7.9	5.4	8	16	180	13	21.5	17.5	1K
	6035	1.4	6.4	3.9	8	12	180	13	15.4	13	1K
	5032	1.46	5.5	3.6	8	12	180	13	15.4	13	1K
	3225	1.4	3.4	2.7	4	8	180	13	11.5	8	3K
	2520	1.15	2.8	2.25	4	8	180	13	10.5	8	3K
	2016	0.95	2.25	2.25	4	8	180	13	10.5	9	3K
	1612	0.8	2.0	1.85	4	8	180	13	10.5	9	3K

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### RELIABILITY TEST SPECIFICATION

Test item	Equipment	Condition	Specification
1.SOLDERABILITY TEST	SJK-REL001、RC-328A	1.solderability:235±5℃, 5±0.5S 2.heat resistance:260±5℃,10±1S restoration of 1 hour	MIL-STD-883E Method 2003.7
2. HERMETICITY TEST	HELIOT-306S	FC-84 FLUOROCARBON,BUBBLE MACHINE	MIL-STD-883E Method 1014.10
3. VIBRATION TEST	HG-V4、S&A 250B	Enable Crystal(10g) from 10-55-10Hz,X、 Y、Z horizontal,1 Minute vibration/time, 1time/ 2 hours.	MIL-STD-883E Method 2007.3
4. MECHANICAL SHOCK	HPC-200、S&A 250B	Enable Crystal 50G(490m/s <sup>2</sup> ) time=11 ms speed=3.4 m/s half sine wave oscillation	JIS C6701
5. DROP TEST	HARD BOARD.S&A250B	75CM HIGH,3 TIMES ON HARD BOARD	MIL-STD-202F Method 213B
6. SALT SPRAY	H-SST-60、RC-328A	5% NaCl,35℃±2℃ CHAMBER, 48 hrs. PH:6.5~7.2	JIS C6701
7. HIGH&LOW TEMP STORAGE TEST(Static test)	H-PTH-80CK & HM101- 3ABN, S&A 350B/250B	High temperature: 125℃±2℃,1000hr; Low temperature:-40℃±3℃,1000hrs	MIL-STD883C, METHOD 1011.8
8. TEMP &HUM CYCLING TEST	H-PTH-80CK CHAMBE , S&A 350B/250B	Temperature:-10℃±2℃ ~ 65℃±2℃,Humidity:93±3%,1 cycle need 24 hrs. 5cycles.	MIL-STD-883E Method 1005.8
9. HIGH TEM. & HUM. STORAGE TEST	H-PTH-80CK CHAMBE , S&A350B/250B	temperature:40℃±2 , Humidity:85+3,- 2%,Store 96 hrs	JIS C6701
10.AGING TEST	H-PTH-80CK CHAMBE , S&A350B/250	temperature: 85℃±2, 1000hrs	JIS C5023

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