

深圳市晶科鑫实业有限公司

样品承认书

客户代码:	
物料名称:	无源晶振
规格型号:	1.6*1.0 32.768kHz 12.5PF ±20PPM -40~85℃
P N/ SJK:	7KC32768F12UC
环保属性:	<input checked="" type="checkbox"/> RoHS <input checked="" type="checkbox"/> REACH <input checked="" type="checkbox"/> HF <input type="checkbox"/> PAHS <input type="checkbox"/> 其它
版 次:	A2 2021-5-10 最小包装: 5000pcs/real
湿敏等级:	一级

承 认 签 章					
供 应 商 承 认			() 公 司 承 认		
制 定	审 核	核 准	工 程 师	审 核	批 准
贺丹斌	李相同	刘惠光			
SJK 支持			盖章签署		
FAE_EMAIL			日 期		
日 期			批示: <input type="checkbox"/> 接受 <input type="checkbox"/> 有条件接受		
备注:					

FEATURE

- Wide Frequency range
- Small size
- Tape & Reel

APPLICATIONS

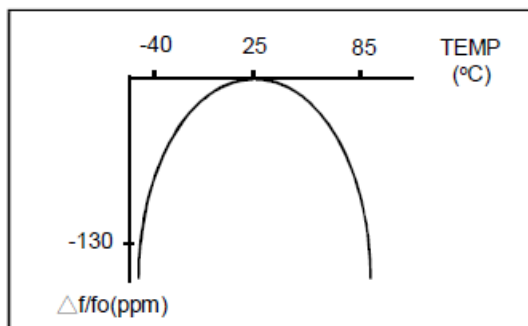
- Microprocessor Systems
- Consumer Electronics

ELECTRICAL SPECIFICATIONS (电气参数)

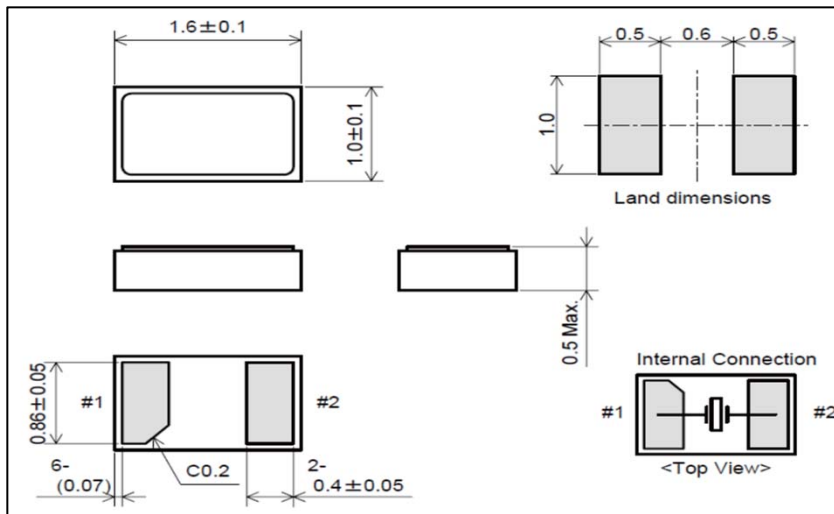
Frequency	32.768KHz
Frequency Tolerance (at 25°C)	±20ppm
Load Capacitance(CL)	12.5PF
Equivalent Series Resistance(ESR)	90KΩ Max
Turnover Temperature	25 ± 5°C
Frequency Temperature Curve	-0.04ppm/°C ² MAX
Operating Temperature Range	-40 °C to +85 °C
Storage Temperature Range	-55 °C to +125 °C
Shunt Capacitance (C0)	1.3pF Typ
Dynamic Capacitance (C1)	6.2fF Typ
Insulation Resistance	0.5μW Max
Insulation Resistance	500MΩ MIN at DC100V±15V
Aging @25°C 1st year (Max)	±3ppm/year max

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

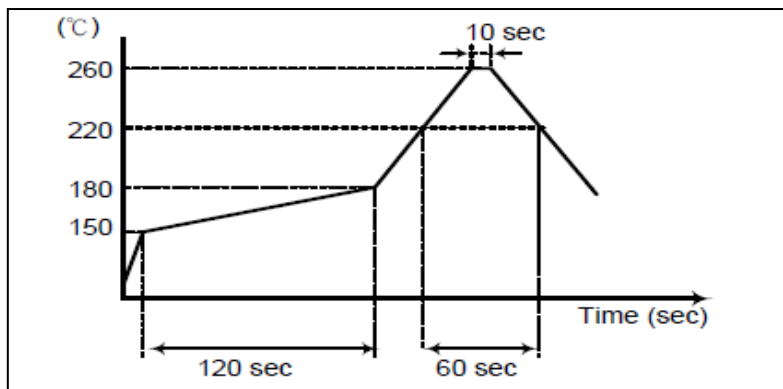
Frequency VS Temperature Curve



Dimension (尺寸) (Unit: mm)



REFLOW CONDITION (回流焊)

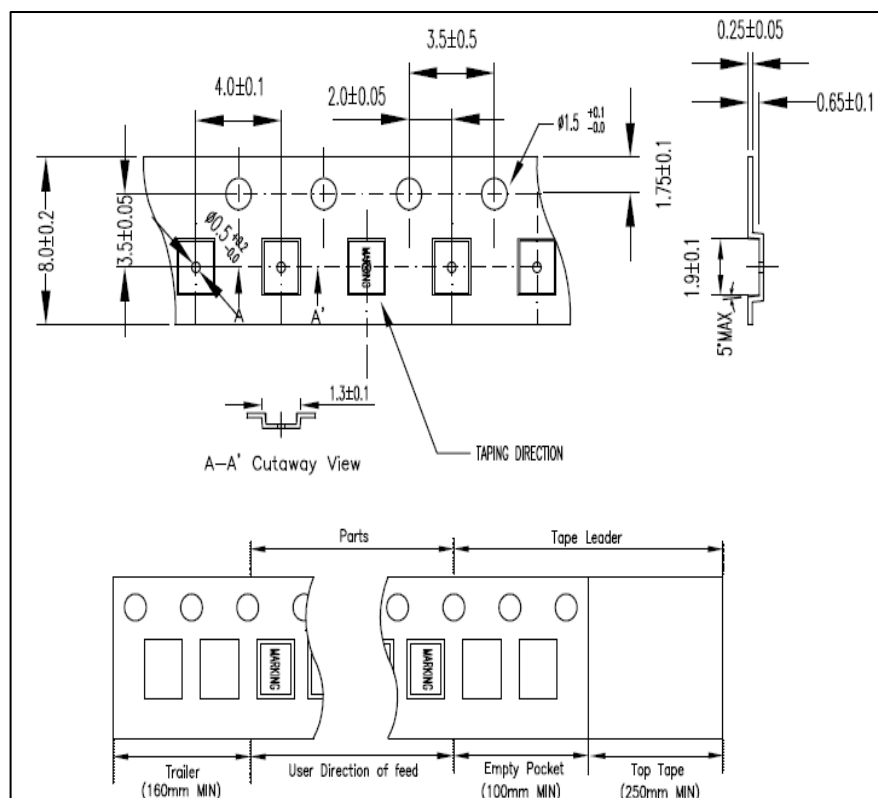


The reflow temperature profile may vary depending on the product model, specifications and frequency range. Refer to the individual product specifications for details

Note:

- 1 Tuning fork products oscillate at frequency bands that are close to the washing frequency of ultrasonic cleaning machine, which may cause resonance deteriorating the electrical characteristics in devices, and even damaging the overall structure of devices. Therefore, using ultrasonic cleaning machine to clean tuning fork devices should be avoided. If the use of this method to clean tuning fork devices is required, it's suggested to check the functionality of devices before and after the cleaning process.
- 2 Avoid mounting and processing by Ultrasonic welding this method has a possibility of an excessive vibration spreading inside the crystal products and becoming the cause of characteristic deterioration and not oscillating.
- 3 Manual soldering heat resistance Pressing a soldering iron of 400°C on the terminal electrode for four seconds (twice).

CARRIER TYPE (载带)



RELIABILITY TEST SPECIFICATIONS (可靠性测试标准)

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	Device are shocked to half sine wave (1000G) three mutually perpendicular axes each 3 times . 1m sec.duration time.	JIS C60068-2-6
5. DROP TEST	HARD BOARD.S&A250B	150CM height,fall freely onto concrete floor 3 times.	JIS C6701
6. HIGH&LOW TEMP STORAGE TEST(Static test)	H-PTH-80CK & HM101-3ABN, S&A 350B/250B	High temperature: 100℃±3℃,100±12hrs; Low temperature:-40℃±3℃,1000±12hrs	JIS C600682-2 JIS C600682-1
7. 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
8. HIGH TEM. & HUM. STORAGE TEST	H-PTH-80CK CHAMBE, S&A350B/250B	Temperature:40℃±3, RH:90~95%,1000 hrs	JIS C600682-3
9.AGING TEST	H-PTH-80CK CHAMBE, S&A350B/250	Temperature:40℃±2, Humidity:85+3,-2%,Store 96 hrs	JIS C5023

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