

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:	贴片晶振
规格型号:	圆柱 JU3*8 32.768KHZ 12.5PF ±20PPM -20~70℃
P N/ SJK:	6K832768F12UB
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:	A1 2017-4-8 初版 最小包装: 1000 只/包
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:					

CRYSTAL RESONANCER



SERIES 6K6 / 2X6MM TUNING FORK WATCH CRYSTAL

1. FEATURE

- Small size

2. APPLICATIONS

- Microprocessor Systems
- Consumer Electronics

3. ELECTRICAL SPECIFICATIONS

Frequency	32.768KHz
Frequency Tolerance (at 25°C)	±20ppm
Load Capacitance(C _L)	12.5PF
ESR	35 KΩ Max
Turnover Temperature	25 ± 2°C
Frequency Temperature Curve	-0.04ppm/°C ² MAX
Operating Temperature Range	-20 °C to +70°C
Storage Temperature Range	-40 °C to +85 °C
Shunt Capacitance (C ₀)	0.9pF Typ
Dynamic Capacitance (C ₁)	2.0fF Typ
Driver Level (Typical)	1 μW Max
Insulation Resistance	100MΩ MIN at DC100V±15V
Aging @25°C 1 st year (Max)	±3ppm/year max

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

电话: 0755-82507042 传真: 0755-88353718

<http://www.q-crystal.com.cn>

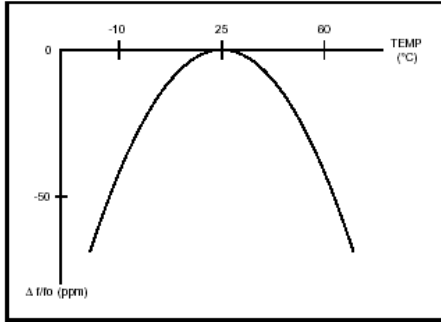
公司地址: 深圳市龙岗区天安云谷产业园一期3栋C座12楼1204~1206室

CRYSTAL RESONANCER

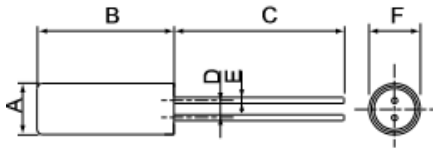


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4. FREQUENCY VS TEMPERATURE CURVE



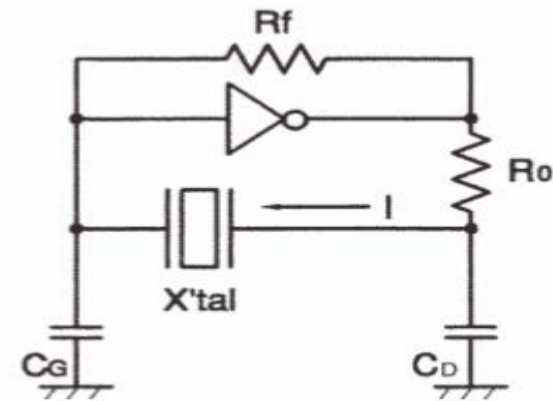
5. PACKING AND DIMENSIONS (Units: mm)



Type	A	B	C	D	E	F
6K6	∅2.0	6.0±0.3	7.0±0.3	0.7±0.2	0.2±0.1	∅2.0±0.1
6K8	∅3.0	8.0±0.3	10.0±0.3	1.1±0.2	0.3±0.1	∅3.0±0.1



6. OSCILLATION CIRCUIT



$$C_L = \frac{C_g \times C_d}{C_g + C_d} + C_s$$

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7. Environment-proof · Mechanical property

No	Item	Specifications	Conditions	
1	High temperature storage	$\Delta f/f = \pm 5 \times 10^{-6}$	After storage under 85°C for 500 hrs, measure at room temperature.	1
2	Low temperature storage	$\Delta f/f = \pm 5 \times 10^{-6}$	After storage under -40°C for 500hrs, measure at room temperature	1
3	High temperature and high humidity storage	$\Delta f/f = \pm 5 \times 10^{-6}$	After storage under 60°C ± 2°C, 90 to 95% RH for 500 hrs, measure at room temperature.	1
4	Thermal shock resistance	$\Delta f/f = \pm 5 \times 10^{-6}$	Measured at room temperature after 20 cycles. -25°C ↔ +80°C for 30 minutes.	1
5	Mechanical shock resistance	$\Delta f/f = \pm 5 \times 10^{-6}$	Measure after free drop of the RESONATOR three times from the height of 75cm onto a wooden board.	2
6	Vibration resistance	$\Delta f/f = \pm 5 \times 10^{-6}$	Amplitude 1.5mm and 10~60Hz with cycle time 2~3 minutes in 3 direction (X, Y, and Z axis) each for 2 hrs.	2
7	Resistance to soldering heat	$\Delta f/f = \pm 5 \times 10^{-6}$	Measured at room temperature after immersing the lead wire in a soldering bath of 300°C ± 10°C for 5 seconds up to a position where it is 2mm away from the root of the plug.	1
8	Tensile strength of lead wire	$\Delta f/f = \pm 5 \times 10^{-6}$	Apply a load of 500g for 30 seconds in the lead wire's axial direction.	2
9	Bending strength of lead wire	$\Delta f/f = \pm 5 \times 10^{-6}$	Bending cycle : 0° → 45° → 0° → 45° → 0°	2
10	Solderability of lead wire	A minimum 95% of the area to be coated with solder	Apply resin-flux contained-solder to a soldering iron of 280°C ± 5°C for 5 seconds.	2

Note:

1. The above tests no. 1 to 9 must be conducted independently (not series tests)
2. *1: Measure after 24 hours soak at room temperature .
3. *2: Measure after 2 hours soak at room temperature .

8. Precautions

(1) Temperature for soldering the lead wire shall not exceed 300°C and the soldering time shall be within 5 seconds.

(2) Position to be soldered : Solder only the position where the lead wire is 1.0mm away from the glass seal.

Do not solder the case.

(3) Cutting, bending and correction of lead wire : The glass seal shall be free of any crack or other damage which may deteriorate the characteristics of RESONATORS.

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