

SERIES 6K6 / 2X6MM TUNING FORK WATCH CRYSTAL

深圳市晶科鑫实业有限公司

Shenzhen Crystal Technology Industrial Co., Ltd APPROVAL SHEET

	<u> </u>
CUSTOMER P/N:	
TYPE:	CRYSTAL
DESCRIPTION:	圆柱 JU2*6 32.768KHZ 12.5PF ±10PPM −40~85℃
P N/ SJK:	6K632768E12UB
ENVIRONMENTAL:	■RoHS ■REACH ■HF □PAHS □other
REVISION:	A1 2015-4-8 MOQ: 1000pcs/real
MSL:	Levels 1

SIGNATURE					
SUPPLIER			CUSTOMER		
Issue	Check	Approve	QA	Check	Approve
SJK			Signature		
FAE_EMAIL			Date		
Date			Approve: □accept		□unaccepted
Note:					

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SERIES 6K6 / 2X6MM TUNING FORK WATCH CRYSTAL

1. FEATURE

Small size

2. APPLICATIONS

- Microprocessor Systems
- Consumer Electronics

3. ELECTRICAL SPECIFICATIONS

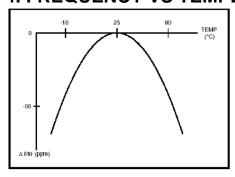
Frequency	32.768KHz
Frequency Tolerance (at 25°C)	±10ppm
Load Capacitance(C _L)	12.5PF
ESR	35 KΩ Max
Turnover Temperature	25 ± 2°C
Frequency Temperature Curve	-0.04ppm/°C ² MAX
Operating Temperature Range	-40 °C to +85°C
Storage Temperature Range	-40 °C to +85 °C
Shunt Capacitance (C0)	0.9pF Typ
Dynamic Capacitance (C1)	2.0fF Typ
Driver Level (Typical)	1 μW Max
Insulation Resistance	100M Ω MIN at DC100V \pm 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.

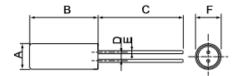


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4. FREQUENCY VS TEMPERATURE CURVE



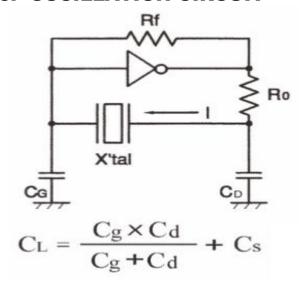
5. PACKING AND DIMENSIONS (Units: mm)



Туре	Α	В	С	D	Е	F
6K6	Ø2.0	6.0±0.3	7.0±0.3	0.7±0.2	0.2±0.1	Ø2.0±0.1
6K8	Ø3.0	8.0±0.3	10.0±0.3	1.1±0.2	0.3±0.1	Ø3.0±0.1



6. OSCILLATION CIRCUIT





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7. Environment-proof · Mechanical property

No	Item	Specifications	Conditions	
1	High temperature storage	$\triangle f/f = \pm 5 \times 10-6$	After storage under 85°C for 500 hrs, measure at room temperature.	1
2	Low temperature storage	$\triangle f/f = \pm 5 \times 10-6$	After storage under -40°C for 500hrs, measure at room temperature	1
3	High temperature and high humidity storage	$\triangle f/f = \pm 5 \times 10-6$	After storage under 60 $^{\circ}$ C ±2 $^{\circ}$ C , 90 to95% 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 after20 cycles25°C⇔+80°C for 30 minutes.	1
5	Mechanical shock resistance	$\triangle f/f = \pm 5 \times 10-6$	Measure after free drop of the RESONATOR three times from the height of 75cm onto a wooden board.	2
6	Vibration resistance	$\triangle f/f = \pm 5 \times 10-6$	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	$\triangle f/f = \pm 5 \times 10-6$	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 is2mm away from the root of the plug.	1
8	Tensile strength of lead wire	$\triangle f/f = \pm 5 \times 10-6$	Apply a load of 500g for 30 seconds in the lead wire's axial direction.	2
9	Bending strength of lead wire	$\triangle f/f = \pm 5 \times 10-6$	Bending cycle : $0^{\circ} \rightarrow 45^{\circ} \rightarrow 0^{\circ} \rightarrow 45^{\circ} \rightarrow 0^{\circ}$	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 adove 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.