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：	插件晶振	
规格型号：	圆柱 3*8 32.768KHz 6PF ±20PPM -40~85℃	
P N/ SJK：	6K832768F06UC	
环保属性：	■RoHS ■REACH ■HF □PAHS □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： □接受 □有条件接受		
备注:					

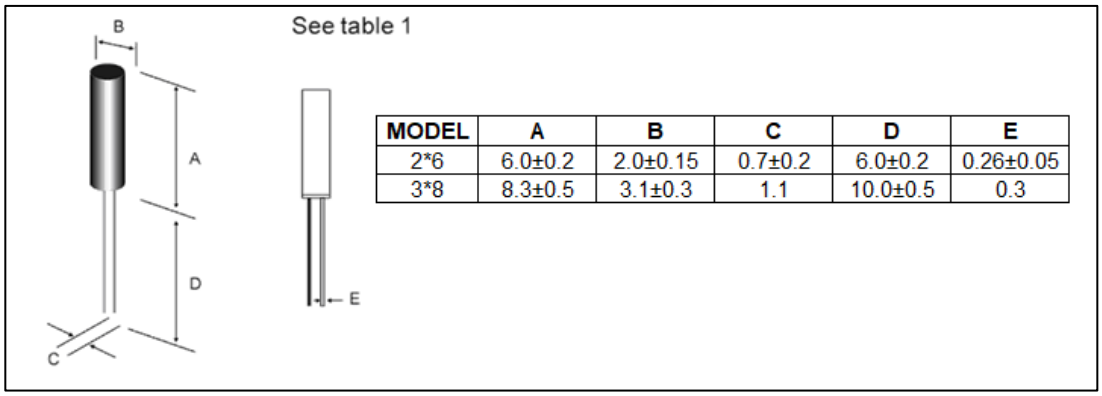
FEATURE

- Best suited for portable devices with low current consumption.
- For a clock source in digital equipments.
- RoHS Compliant / Pb Free.

ELECTRICAL SPECIFICATIONS

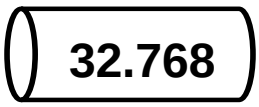
Frequency range	32.768MHz
Package	3x8mm
Frequency Tolerance (at 25°C)	±20ppm
ESR	30Ω Max
Turnover Temperature	25 ± 5°C
Frequency Temperature Curve	[-0.035±0.01]ppm/°C²
OperableTemperature Range	-20°C to +70 °C
Storage Temperature Range	-40 °C to +85 °C
Shunt Capacitance (C0)	1.75pF Typical
Dynamic Capacitance (C1)	0.0035fF Typical
Driver Level (DL)	1 µW Typical
Capacitance Ratio C0/C1	500 Typical
Quality Factor Q	60000Typical
Load Capacitance(CL)	6PF
Insulation Resistance	500Mohm Min DC=100V± 15V(Pin to Pin,Pin to case)
Aging @25°C 5st year (Max)	±3ppm/year

DIMENSION（Unit：mm）

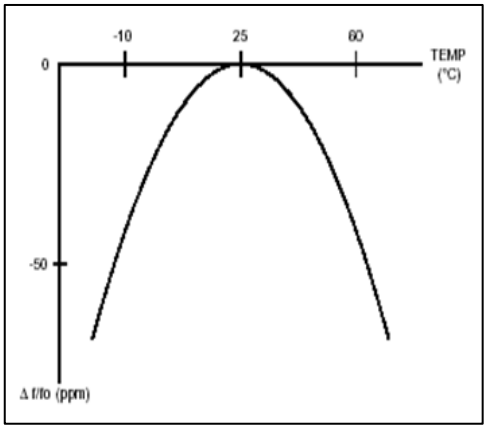


MODEL	A	B	C	D	E
2*6	6.0±0.2	2.0±0.15	0.7±0.2	6.0±0.2	0.26±0.05
3*8	8.3±0.5	3.1±0.3	1.1	10.0±0.5	0.3

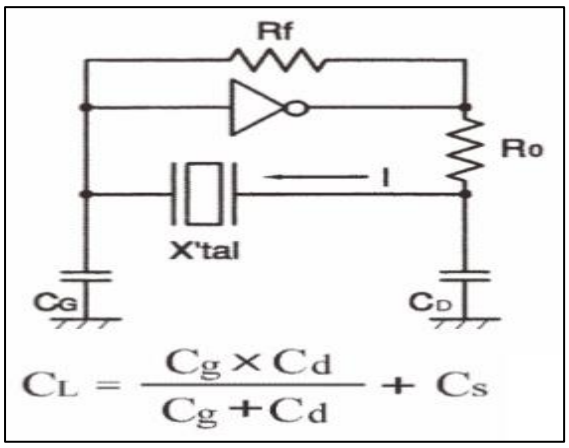
MARK



Frequency VS Temperature Curve



Oscillation Circuit



Environment-proof ·Mechanical property

No	Item	Specifications	Conditions	
1	High temperature storage	△f/f =±5 × 10-6	After storage under 85℃ for 500 hrs, measure at room temperature.	1
2	Low temperature storage	△f/f =±5 × 10-6	After storage under -40℃ for 500hrs, measure at room temperature	1
3	High temperature and high humidity storage	△f/f =±5 × 10-6	After storage under 60℃±2℃, 90 to95% RH for 500 hrs, measure at room temperature。	1
4	Thermal shock resistance	△f/f =±5 × 10-6	Measured at room temperature after20 cycles. -25℃ ⇔+80℃ for 30 minutes.	1
5	Mechanical shock resistance	△f/f =±5 × 10-6	Measure after free drop of the RESONATOR three times from the height of 75cm onto a wooden board.	2
6	Vibration resistance	△f/f =±5 × 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	△f/f =±5 × 10-6	Measured at room temperature after immersing the lead wire in a soldering bath of 300℃±10℃ for 5 seconds up to a position where it is2mm away from the root of the plug.	1
8	Tensile strength of lead wire	△f/f =±5 × 10-6	Apply a load of 500g for 30 seconds in the lead wire's axial direction.	2
9	Bending strength of lead wire	△f/f =±5 × 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℃±5℃ 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 .

Precautions

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

(2) Position to be soldered : Solder only the position where the lead wire is1.0mm 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.