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：	3*8 插件晶振	
规格型号：	3*8 32.768KHZ 9PF ±20PPM -20~70℃	
P N/ SJK：	6K832768F09UB	
环保属性：	■RoHS ■REACH ■HF □PAHS □其它	
版 次：	A1 2020-6-10 初版	最小包装 1K/盒
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:					

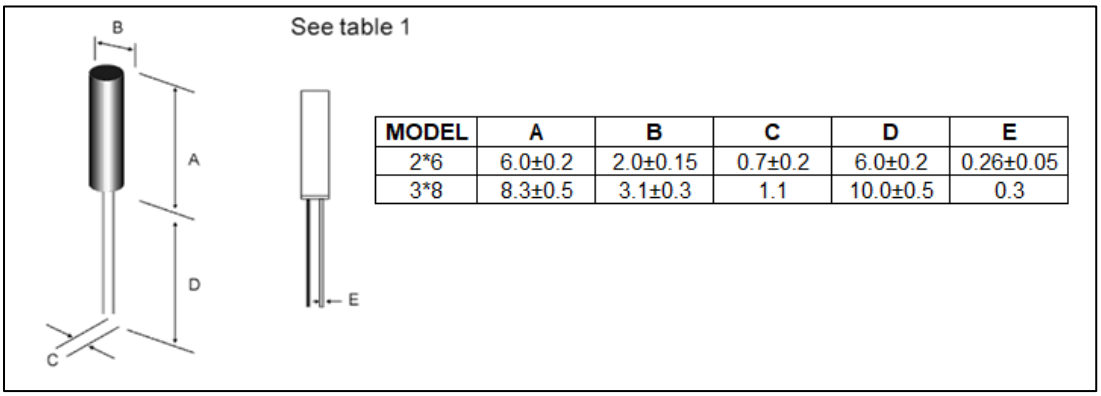
FEATURE

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

ELECTRICAL SPECIFICATIONS

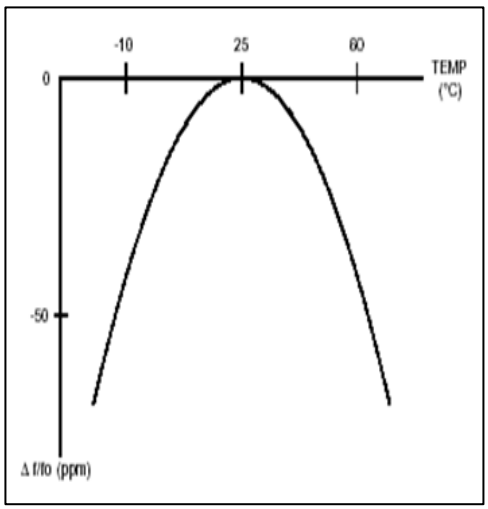
Frequency range	32.768KHz
Package	3x8mm
Frequency Tolerance (at 25°C)	±10ppm
ESR	30Ω Max
Turnover Temperature	25 ± 5°C
Frequency Temperature Curve	[-0.035±0.01]ppm/°C²
OperableTemperature Range	-20°C to +70 °C
Storage Temperature Range	-40 °C to +85 °C
Shunt Capacitance (C0)	1.75pF Typical
Dynamic Capacitance (C1)	0.0035fF Typical
Driver Level (DL)	1 µW Typical
Capacitance Ratio C0/C1	500 Typical
Quality Factor Q	60000Typical
Load Capacitance(CL)	9PF
Insulation Resistance	500Mohm Min DC=100V± 15V(Pin to Pin,Pin to case)
Aging @25°C 5st year (Max)	±3ppm/year

DIMENSION（Unit：mm）

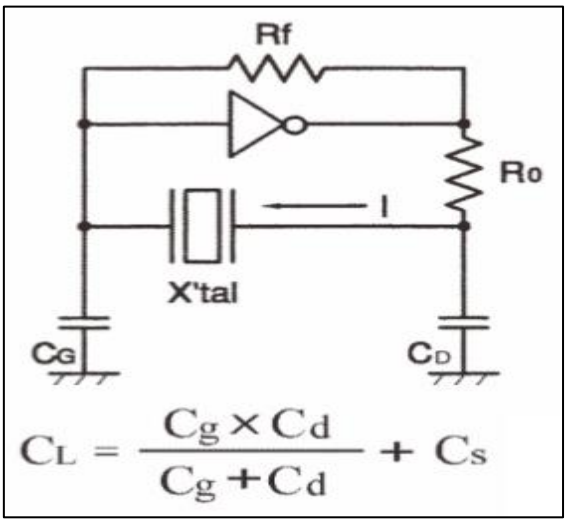


MODEL	A	B	C	D	E
2*6	6.0±0.2	2.0±0.15	0.7±0.2	6.0±0.2	0.26±0.05
3*8	8.3±0.5	3.1±0.3	1.1	10.0±0.5	0.3

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.

REVISION RECORD (6K832768F09UB)

Rev	Revise contents	Reason	Reviser	Checked	Approved
A1	Initial released	--	贺丹斌	李相同	刘惠光