

Crystal resonancer

Series 6K3 3.2*1.5MM TUNING FORK WATCH CRYSTAL 32.768KHz



Approved by:黄灏东
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Issued by: 玉静霞

SPECIFICATION

PN: SJK-6K3-32.768-6-20-70-C

深圳市晶科鑫实业有限公司

SHENZHEN CRYSTAL TECHNOLOGY INDUSTRIAL CO., LTD.

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FEATURE

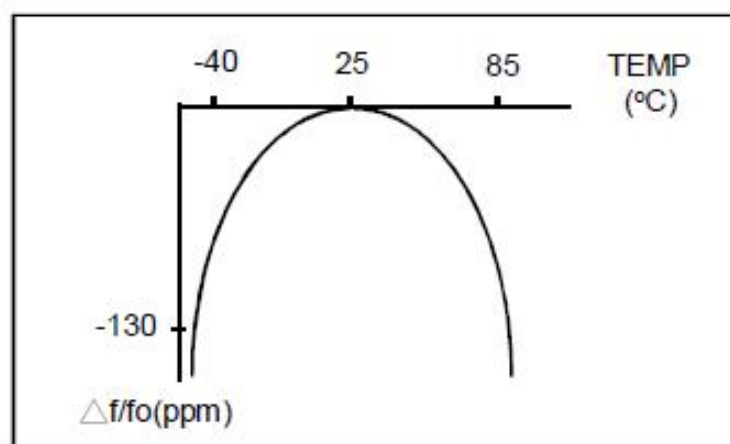
- I 2 pads surface mount package.
- I High reliable environmental performance.
- I RoHS compliant /Pb Free.
- I AECQ200 Certified for automotive
- I RTC applications

ELECTRICAL SPECIFICATIONS

Frequency	32.768KHz
Frequency Tolerance (at 25°C)	±20ppm
Load Capacitance(C _L)	6pF
ESR	70KΩ Max
Turnover Temperature	25 ± 5°C
Frequency Temperature Curve	-0.04ppm/°C ² MAX
Storage Temperature Range	-55 °C to +125 °C
Operating Temperature Range	-40 °C to +85 °C
Shunt Capacitance (C ₀)	1.2pF Typ
Dynamic Capacitance (C ₁)	3.7fF Typ
Driver Level (Typical)	0.5 μW Max
Insulation Resistance	500MΩ 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.

Frequency VS Temperature Curve



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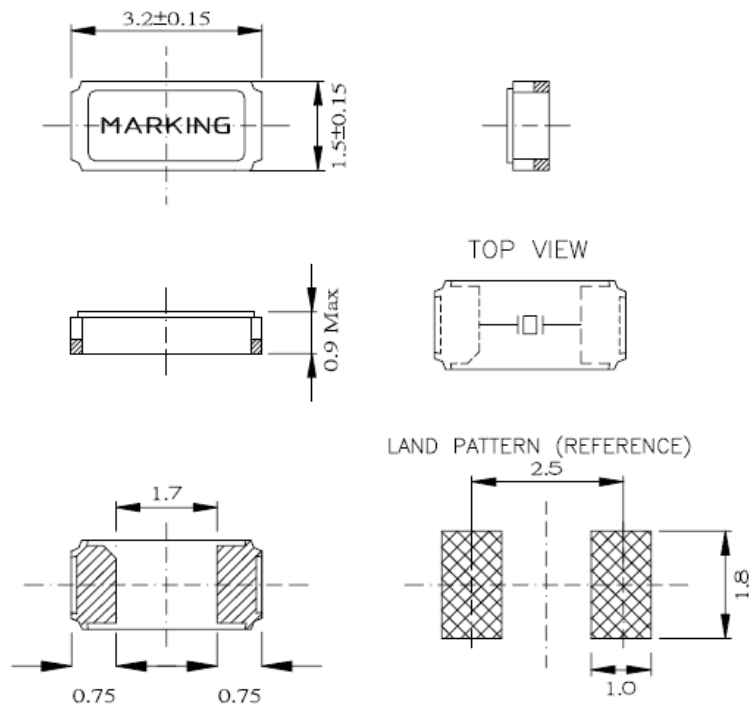
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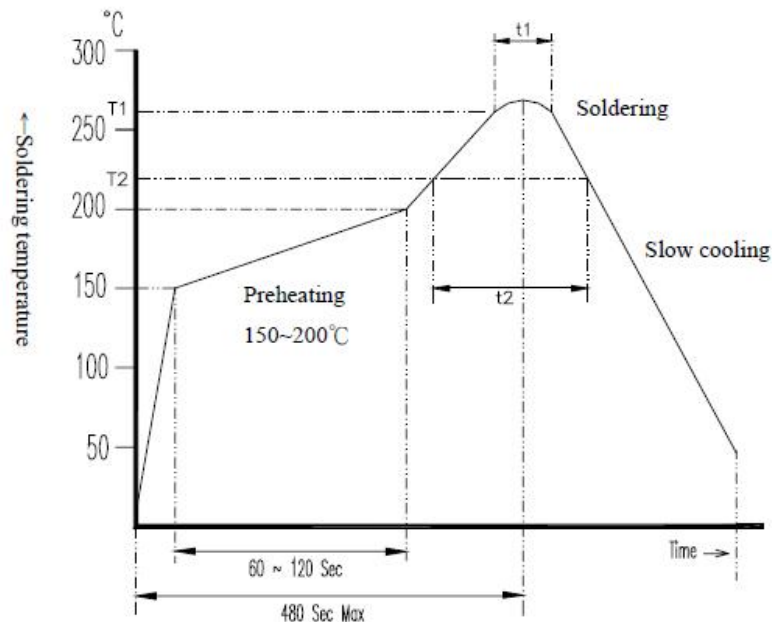
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Dimensions

Unit: mm



Recommended Reflow portfolio



Application\Temperature Time	T1 / t1	T2 / t2
Lead Free	$260 \pm 5^\circ\text{C}$ / 10 ± 5 Sec Max	217°C Min / $60 \sim 150$ Sec
Non Lead Free	$240 \pm 5^\circ\text{C}$ / 10 ± 5 Sec Max	183°C Min / $60 \sim 150$ Sec

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PART NUMBER

SJK-	6K3	32.768	6	20	70	C
	6K3: 3.2*1.5MM	Frequency	Load capacitance	Frequency tolerance	E.S.R. 70kohm	temp.range B:-40-85°C

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 characteristic 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).

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