

CERAMIC RESONATOR

ZTTCC Series With Built-In Capacitor SMD Type



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:	ZTTCC	
规格型号:	ZTTCC 3.580MHZ 3PIN 7.4*3.4 -20~85℃	
P N/ SJK:	ZTTCC0358E	
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 2017-6-10 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: <input type="checkbox"/> 接受 <input type="checkbox"/> 有条件接受		
备注:					

Add: 12F, Bldg. 3C, TianAn Cloud Park Phase 1, Bantian, Longgang, Shenzhen 518129, China

Tel: (86) 755 82507042

Fax: (86) 755 88353718

E-mail: sjk@g-crystal.com

HTTP://www.g-crystal.com

Page of 1

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FEATURE

This specification shall cover the characteristics of the ceramic resonator with the type ZTTCC2.000MG

ELECTRICAL SPECIFICATIONS (电气参数)

2.1 RATING

Items	Requirement
Withstanding Voltage (V)	50 (DC, 1min)
Insulation Resistance Ri, (MΩ) min.	100 (10V, 1min)
Operating temperature	-20°C ~ +85°C
Storage temperature	-55°C ~ +85°C
Rating Voltage UR (V)	6V DC
	15V p-p

2.2 ELECTRICAL SPECIFICATIONS

Items	Requirement
Oscillation Frequency Fosc (MHz)	3.580
Frequency Accuracy (%)	±0.3
Resonant Impedance Ro (Ω) max.	40
Temperature Coefficient of Oscillation Frequency (%) max.	±0.3 (Oscillation Frequency drift, -20°C ~ +85°C)
Oscillation Frequency Aging Rate (%) max *1	±0.3 (From initial value)

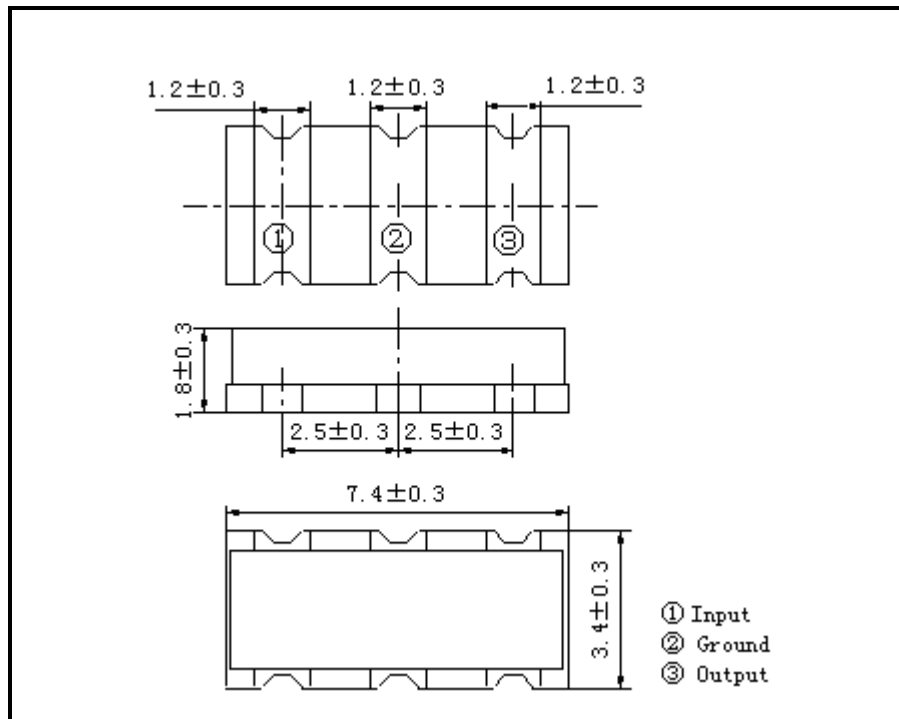
* Components shall be left in a chamber of +85±2°C for 1000 hours, then measured after leaving in natural condition for 1 hour.

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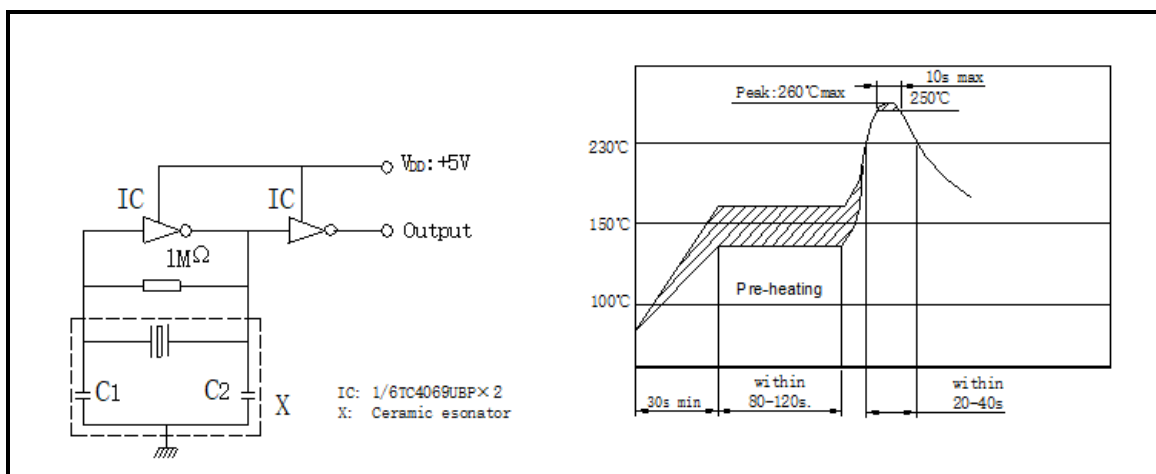


Dimension (尺寸) (Unit: mm)



TEST CIRCUIT

Parts shall be tested under the condition (Temp.: $20 \pm 15^\circ\text{C}$, Humidity : $65 \pm 20\%$ R.H.) unless the standard condition (Temp.: $25 \pm 3^\circ\text{C}$, Humidity : $65 \pm 10\%$ R.H.) is regulated to measure.



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RELIABILITY TEST SPECIFICATIONS (可靠性测试标准)

Test item	Equipment	Condition	Specification
1.TERMINAL STRENGTH TEST	tensiometer	Pull test: In loading 5 ~ quietly on the terminal, bending tests perpendicular with 10 N forces Shi 10 seconds: 2.5 millimeters of place terminal are curved 9	FC \leq \pm 0.2% 30 Ω MAX
2.SOLDERABILITY TEST	SJK-REL001、RC-328A	Solder nature tests: Terminal 1.5 MM immerse in 230 +/-5 -C tin pool inner at least: 5 +/-solders the heatproof testing second: The terminal arrives at the component root segment in 350 +/-10 -C tin pool inner immersion 1. 3 seconds of natural conditions test 5 MM time 1 hour	FC \leq \pm 0.2% 30 Ω MAX
3.VIBRATION TEST	bobbing machine (HG-V4)、S&A250B	Vibration frequency pushes down 10-55 Hertz , 10 gs , extent 1.5 MM; X , Y , Z horizontal plane , every direction 1 uses 250 B do test hour, again to the sample	FC \leq \pm 0.2% 30 Ω MAX
4 DROP TEST	hardwood;S&A250B	Crystal drops 3 time from 1M altitudes going ahead in the cement floor; Use 250 B do test again to the sample	FC \leq \pm 0.2% 30 Ω MAX
5 TEMP & HUM CYCLING TEST	H-PTH-80CK & HM101-3ABN, S&A 350B/250B	High temperature: 40 -C +/-2 -C , 100 hour; Humidity: 90 ~ 95%, natural conditions places testing 1 hour	FC \leq \pm 0.2% 30 Ω MAX
6 HIGH TEMP STORAGE TEST	H-PTH-80CKCHAMBER, S&A 350B/250B	Temperature: 85 -C +/-2 -C, place in the container 100 hours, 1 hour of natural conditions	FC \leq \pm 0.2% 30 Ω MAX
7 LOW TEMP STORAGE TEST	H-PTH-80CKCHAMBER, S&A350B/250B	Temperature: -55 -C +/-2, places in the container 100 hours, 1 hour of natural conditions	FC \leq \pm 0.2% 30 Ω MAX
8.THE TEMPERATURE POUNDS A TEST	H-PTH-80CKCHAMBER, S&A350B/250B	Temperature: -55 -C (30 minutes), test 1 hour till 85 -C (30 minutes) 5 time of circulation , 15 1 time of minutes , natural conditions	FC \leq \pm 0.2% 30 Ω MAX

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