

2.0x2.5 SMD Crystal



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产品规格书 SPECIFICATION

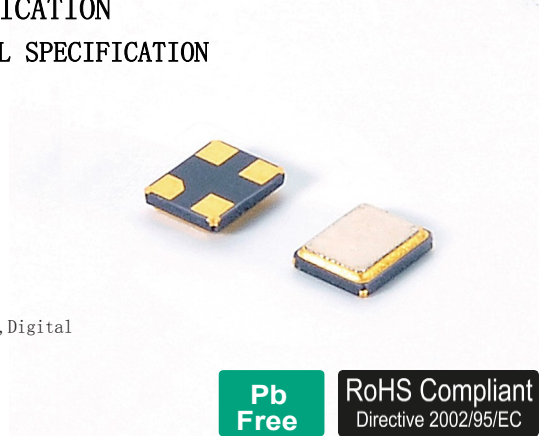
标题 Title: 石英晶体谐振器规格书 QUARTZ CRYSTAL SPECIFICATION

FEATURE

- Rugged AT-cut crystal construction.
- Miniature 2.5×2.0mm ceramic package.
- Designed for automatic mounting and reflow soldering.
- Embossed tapping specification.
- Pb-free and RoHS/Green compliant.

APPLICATIONS

- Ideally suited designed for Bluetooth wireless communication sets, HDD, DSN, PDA, GPS, Digital Tuner, Wireless LAN and mobile phone.



Pb Free

RoHS Compliant
Directive 2002/95/EC

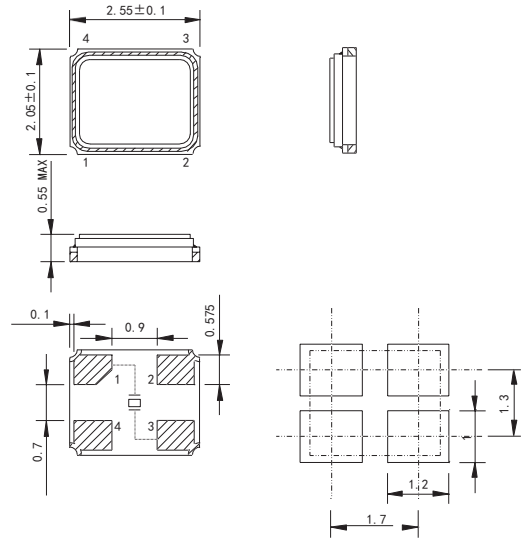
Electrical Characteristics 技术指标

型号	Holder Type	2.0x2.5mm Ceramic Surface Mount
频率范围	Frequency Range	16MHz to 54MHz
调整频差	Frequency Tolerance (ΔF) (at 25°C)	$\pm 10\text{ppm}$ to $\pm 30\text{ppm}$
温度频差	Frequency Drift	$\pm 10\text{ppm}$ to $\pm 30\text{ppm}$ ※(See Notes)
工作温度范围	Operating Temperature Range	-20°C - +70°C / -40°C - +85°C
储存温度范围	Storage Temperature Range	-40°C - +85°C / -55°C - +125°C
老化	Aging (25°C)	$\pm 3\text{ppm}/\text{year}$ Maximum
静电容	Shunt Capacitance (C0)	3pF maximum
激励功率	Drive Level	10 μW (100 μW max.)
绝缘阻抗	Insulation Resistance (Rs)	500 Megaohms Minimum at D.C100V
负载电容	Load Capacitance (CL)	Suggested by customer

※Notes: ± 10 , ± 20 , $\pm 30\text{ppm}$ (-20°C to +70°C)
 ± 20 , ± 30 , $\pm 50\text{ppm}$ (-40°C to +85°C) or depends on customer

•Mechanical Dimensions 外型尺寸

UNIT (单位): mm (毫米)



suggested solder pad layout

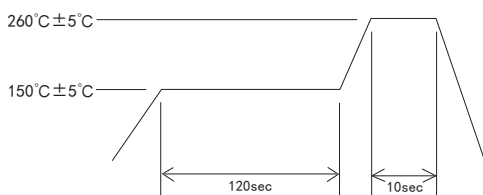
Note) #2, #4 is connected with a cover (Please connect with a GND or a power supply)

•Equivalent Series Resistance and Mode of Operation

等效阻抗和振荡模式

Frequency Range 频率范围	ESR (Ω) 等效阻抗	Mode 振荡模式
16.000MHz ≤ f < 20.000MHz	100 Ω max	Fundamental
20.000MHz ≤ f < 30.000MHz	80 Ω max	Fundamental
30.000MHz ≤ f < 40.000MHz	60 Ω max	Fundamental
40.000MHz ≤ f < 54.000MHz	40 Ω max	Fundamental

•Reflow Condition(回流焊条件)



CYCLE TIME: 200sec Max.