

# 5.0x3.2 SMD (Glass Sealed) Crystal



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## 产品规格书 SPECIFICATION

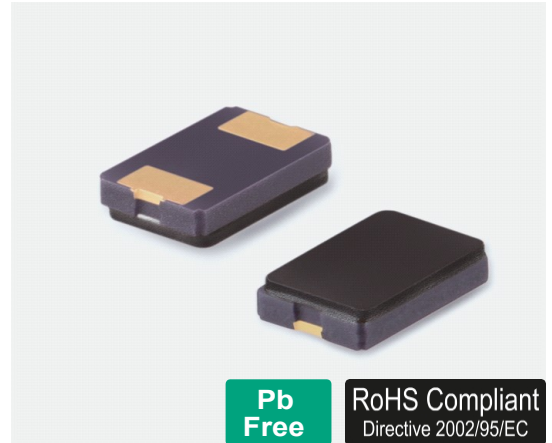
标题 Title: 石英晶体谐振器规格书 QUARTZ CRYSTAL SPECIFICATION

### FEATURE

- Rugged AT-cut crystal construction.
- Miniature 5.0×3.2mm ceramic package.
- Suitable for Reflow soldering.
- Pb-free and RoHS/Green compliant.

### APPLICATIONS

- Ideally suited designed for HDD, PCMCIA Cards, Portable Hand-held PCs, Notebook PC, Wireless LAN, Portable Multimedia Devices, USB Dongle.

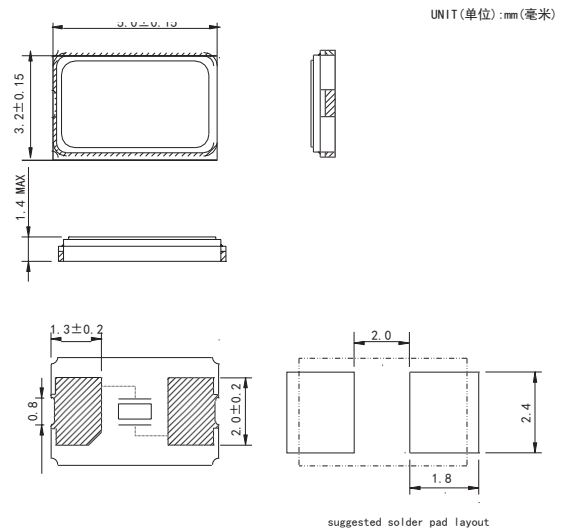


### Electrical Characteristics 技术指标

型号	Holder Type	5.0x3.2mm Glass Surface Mount
频率范围	Frequency Range	8.000 to 150.0000 MHz
调整频差	Frequency Tolerance ( $\Delta F$ ) (at 25°C)	$\pm 10$ ppm to $\pm 30$ ppm
温度频差	Frequency Drift	$\pm 10$ ppm to $\pm 30$ 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)	$\pm 3$ ppm/ year max.
静电容	Shunt Capacitance (C0)	5pF max.
激励功率	Drive Level	10 $\mu$ W (300 $\mu$ W max.)
绝缘阻抗	Insulation Resistance (Rs)	500 Megaohms Minimum at D.C 100V
负载电容	Load Capacitance (CL)	Suggested by customer

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

### Mechanical Dimensions 外型尺寸

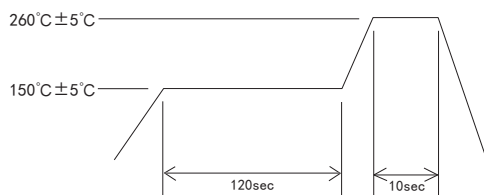


### Equivalent Series Resistance and Mode of Operation

等效阻抗和振荡模式

Frequency Range 频率范围	ESR ( $\Omega$ ) 等效阻抗	Mode 振荡模式
8.000MHz $\leq$ f < 10.000 MHz	100Max	基频 Fundamental
10.000MHz $\leq$ f < 12.000 MHz	80Max	Fundamental
12.000MHz $\leq$ f < 16.000 MHz	60Max	Fundamental
16.000MHz $\leq$ f < 20.000 MHz	50Max	Fundamental
20.000MHz $\leq$ f < 24.000 MHz	40Max	Fundamental
24.000MHz $\leq$ f < 50.000 MHz	30Max	Fundamental
40.000MHz $\leq$ f < 150.000 MHz	80Max	Third Overtone

### Reflow Condition(回流焊条件)



CYCLE TIME: 200sec Max.