

# 5x3.2 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

- Tight tolerance & stability.
- Rugged AT-cut crystal construction.
- Miniature 5.0×3.2mm ceramic package.
- High precision characteristic covering up to high frequency range
- Automatic mounting
- Embossed taping specification
- Suitable for Reflow soldering
- Pb-free and RoHS/Green compliant.

#### APPLICATIONS

- Ideally suited designed for disc drives, HDD, PCMCIA Cards, Notebook PC, GPS, Blue Tooth, wireless LAN, USB Dongle, Pen Driver, and hand-held electronic products.



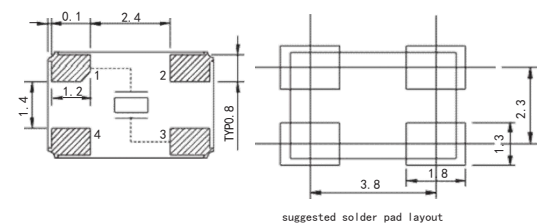
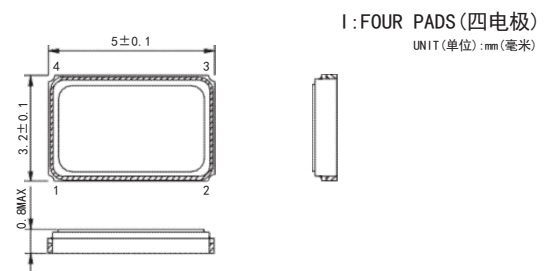
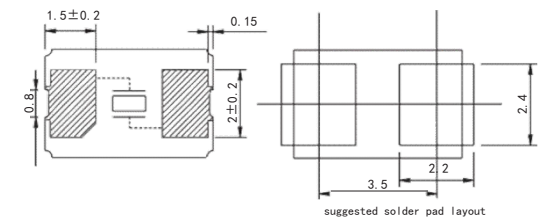
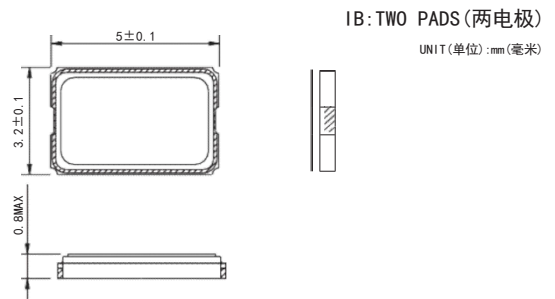
Pb Free

RoHS Compliant  
Directive 2002/95/EC

#### Electrical Characteristics 技术指标

型号	Holder Type	5×3.2mm Ceramic Surface Mount
频率范围	Frequency Range	8.000 to 150.0000 MHz
调整频差	Frequency Tolerance ( $\Delta F$ ) (at25°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)	$\pm 3\text{ppm/ year max.}$
静电容	Shunt Capacitance (C0)	5pF max.
激励功率	Drive Level	10 $\mu\text{W}$ (300 $\mu\text{W}$ 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

#### Mechanical Dimensions 外型尺寸

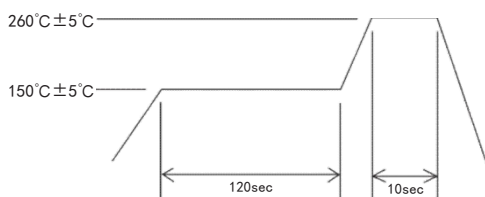


#### Equivalent Series Resistance and Mode of Operation

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.

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