

# 6x3.5 SMD Crystal



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## 产品规格书 SPECIFICATION

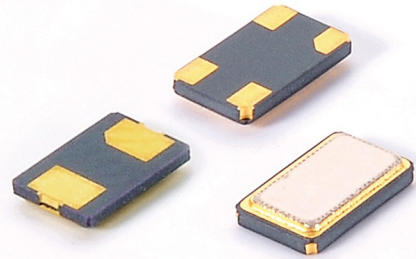
标题 Title: 石英晶体谐振器规格书 QUARTZ CRYSTAL SPECIFICATION

### FEATURE

- Rugged AT-cut crystal construction.
- Rugged construction and excellent mechanical shock resistance.
- Extremely compact SMD package.
- High precision characteristic covering up to high frequency range
- Automatic mounting
- Embossed tapping specification
- Suitable for solder reflow
- Pb-free and RoHS/Green compliant.

### APPLICATIONS

- Ideally suited designed for disc drives, PCMCIA, PCs and hand-held electronic products.



Pb Free

RoHS Compliant  
Directive 2002/95/EC

### Electrical Characteristics 技术指标

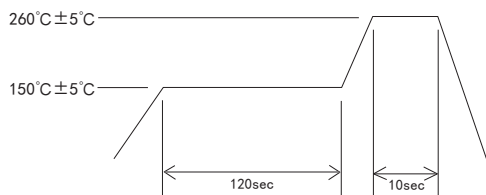
型号	Holder Type	6x3.5mm Ceramic Surface Mount
频率范围	Frequency Range	8.000 to 150.0000 MHz
调整频差	Frequency Tolerance ( $\Delta F$ ) (at 25°C)	$\pm 10$ ppm to $\pm 30$ ppm
温度频差	Frequency Drift	$\pm 10$ ppm to $\pm 30$ ppm*(See Notes)
工作温度范围	Operating Temperature Range	-20°C - +70°C / -40°C - +85°C
储存温度范围	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

### 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	60Max	基频 Fundamental
10.000MHz $\leq f < 14.000$ MHz	50Max	Fundamental
14.000MHz $\leq f < 20.000$ MHz	40Max	Fundamental
20.000MHz $\leq f < 40.000$ MHz	30Max	Fundamental
40.000 to 150.000MHz	80Max	三次泛音 Third Overtone

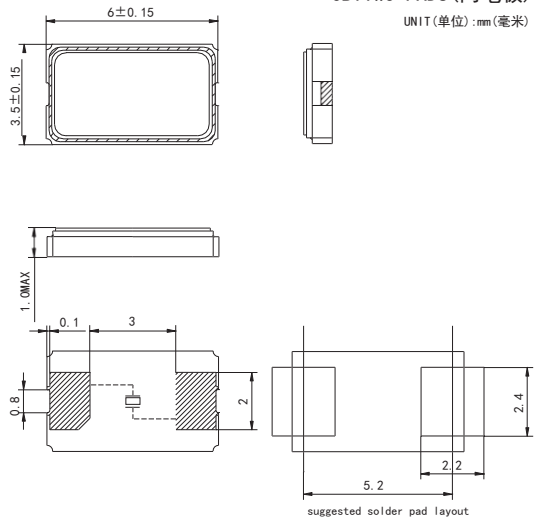
### Reflow Condition(回流焊条件)



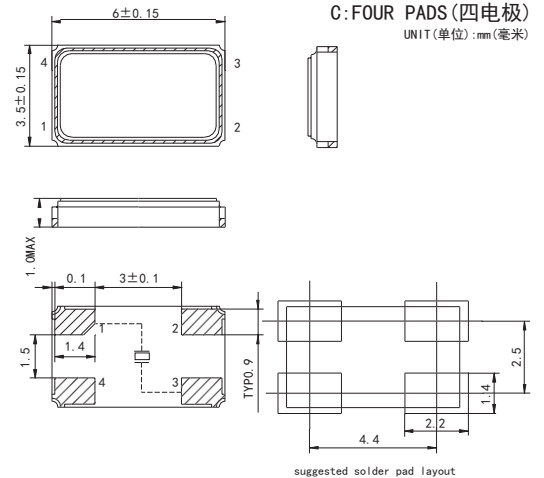
CYCLE TIME: 200sec Max.

### Mechanical Dimensions 外型尺寸

CB: TWO PADS (两电极)  
UNIT (单位): mm (毫米)



C: FOUR PADS (四电极)  
UNIT (单位): mm (毫米)



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