

5x3.2 SMD Crystal



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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 tapping 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.



Electrical Specifications 电气参数

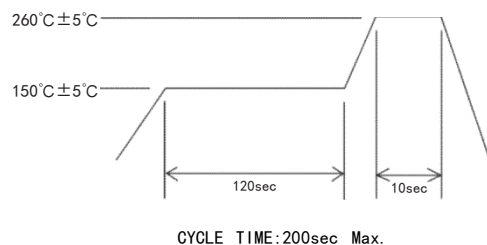
型号	Holder Type	5x3.2mm Ceramic Surface Mount
频率范围	Frequency Range	8.000 to 150.0000 MHz
调整频差	Frequency Tolerance (ΔF) (at 25°C)	$\pm 10\text{ppm}$ to $\pm 30\text{ppm}$
温度频差	Frequency Drift	$\pm 10\text{ppm}$ to $\pm 30\text{ppm}$ ※ (See Notes)
工作温度范围	Operating Temperature Range	-20°C - +70°C / -40°C - +85°C
储存温度范围	Storage Temperature Range	-40°C - +85°C / -55°C - +125°C
老化	Aging (25°C)	$\pm 5\text{ppm/ year max.}$
静电容	Shunt Capacitance (C0)	7pF max.
激励功率	Drive Level	10 μW (300 μW 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: ± 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

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
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)

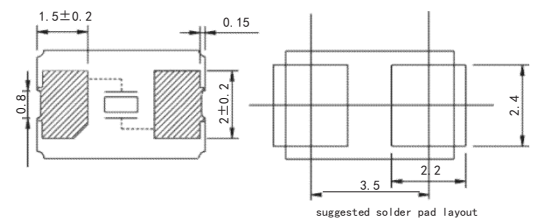
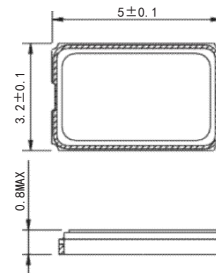


CYCLE TIME: 200sec Max.

Mechanical Dimensions 外型尺寸

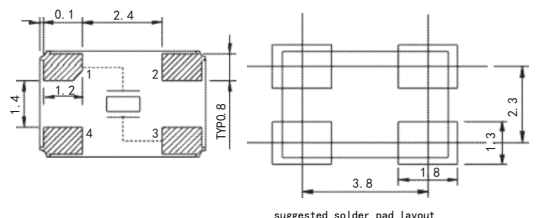
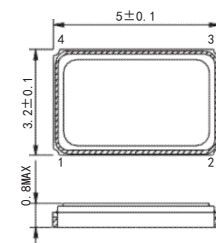
IB: TWO PADS (两电极)

UNIT (单位): mm (毫米)



I: 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)

