

3.2x2.5 SMD Crystal



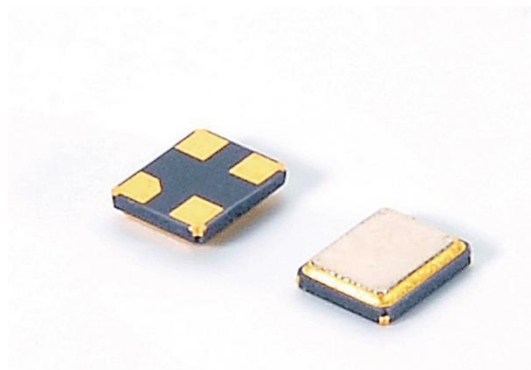
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FEATURE

- Rugged AT-cut crystal construction.
- Miniature 3.2×2.5mm 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.



Electrical Specifications 电气参数

型号	Holder Type	3.2x2.5mm Ceramic Surface Mount
频率范围	Frequency Range	12MHz 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)	$\pm 5\text{ppm/ year max.}$
静电容	Shunt Capacitance (C0)	7pF max.
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

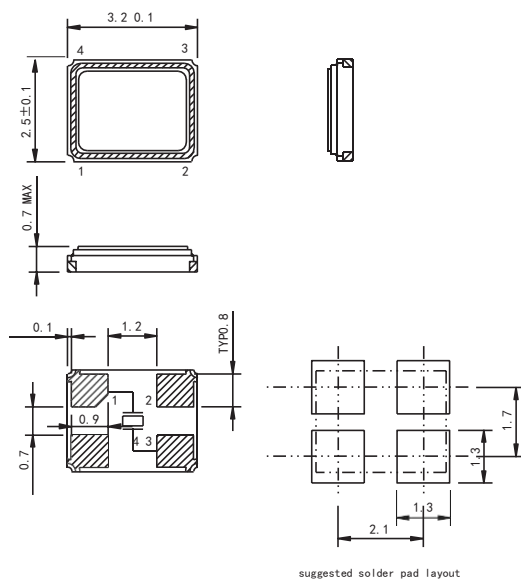
※Notes: ± 10 , ± 20 , $\pm 30\text{ppm}$ (-20°C to +70°C)
 ± 20 , ± 30 , $\pm 50\text{ppm}$ (-40°C to +85°C) or depends on customer

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
12.000MHz $\leq f < 16.000\text{MHz}$	100 Ω max	Fundamental
16.000MHz $\leq f < 20.000\text{MHz}$	80 Ω max	Fundamental
20.000MHz $\leq f < 24.000\text{MHz}$	60 Ω max	Fundamental
24.000MHz $\leq f < 54.000\text{MHz}$	40 Ω max	Fundamental

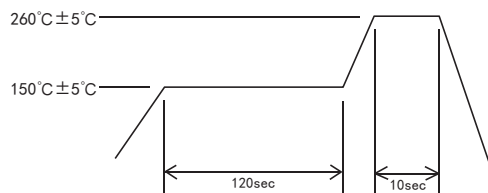
Mechanical Dimensions 外型尺寸

UNIT (单位): mm (毫米)



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

Reflow Condition (回流焊条件)



CYCLE TIME: 200sec Max.

