

SMD QUARTZ CRYSTAL RESONATOR

石英晶体谐振器



4 Pad Version 12.5×4.6 mm

- Plastic Encapsulated
- ± 10 ppm available
- Temperatures to $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Reflow soldering temperature: 260°C max
- Tape and Reel (1,000 pcs STD)

RoHS
2002/95/

RoHS compliant

★ PARAMETERS

技术参数

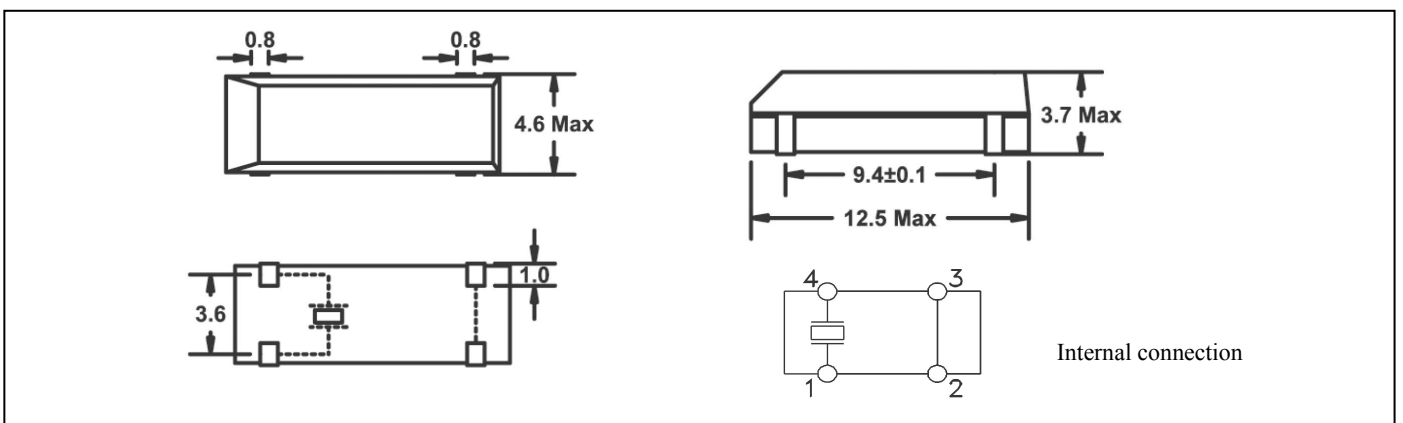
PARAMETERS	参数	SPECIFICATION 规格
Frequency Range	频率范围	3.579~27.000MHz
Loading Capacitance	负载电容	20pF Std. 8 to 33pF Series available
Drive Level	激励电平	100 μ W Max
Frequency Tolerance	频率偏差	$\pm 10\text{ppm} \sim \pm 50\text{ppm}$ (at 25°C)
Frequency Stability	频率稳定性	$\pm 20\text{ppm} \sim \pm 50\text{ppm}$
Equivalent Resistance	谐振电阻	50 $\Omega \sim 200 \Omega$
Operating Temp. Range:	工作温度范围	$-10 \sim +60^{\circ}\text{C}$ to $-40 \sim +85^{\circ}\text{C}$
Storage Temp. Range:	储存温度范围	$-55 \sim +125^{\circ}\text{C}$
Aging (25°C , First Year)	年老化率	$\pm 5\text{ppm max}$

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★ ESR (SERIES RESISTANCE RS) 谐振电阻

Frequency (MHz) 频率范围	3.579 $\leq f < 4.000$	4.000 $\leq f < 6.000$	6.000 $\leq f < 10.000$	10.000 $\leq f < 27.000$
Equivalent Resistance (MHz) 谐振				

★ DIMENSIONS& LAND PATTERN LAYOUT (Unit: mm) 外形尺寸

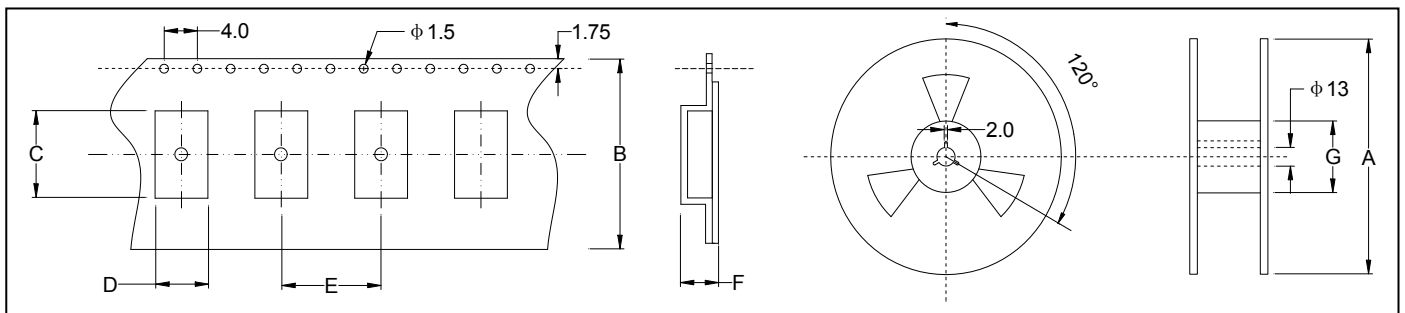


★ PART NUMBER GUIDE 部件号示例 e.g. JXX16.000M20SM12-30/50D (*S=HC49/S TYPE)

Logo	Quartz Crystal Resonator 石英晶体谐振器	Frequency 频率 Hz	Load Capacitance 负载电容 pF	Package 盒型	Frequency Tolerance 常温频差 ppm	Frequency Stability 温度频差 ppm	Operating Temp. Range 工作温度
JX	X	16.000M	20	SM12	30	50	D

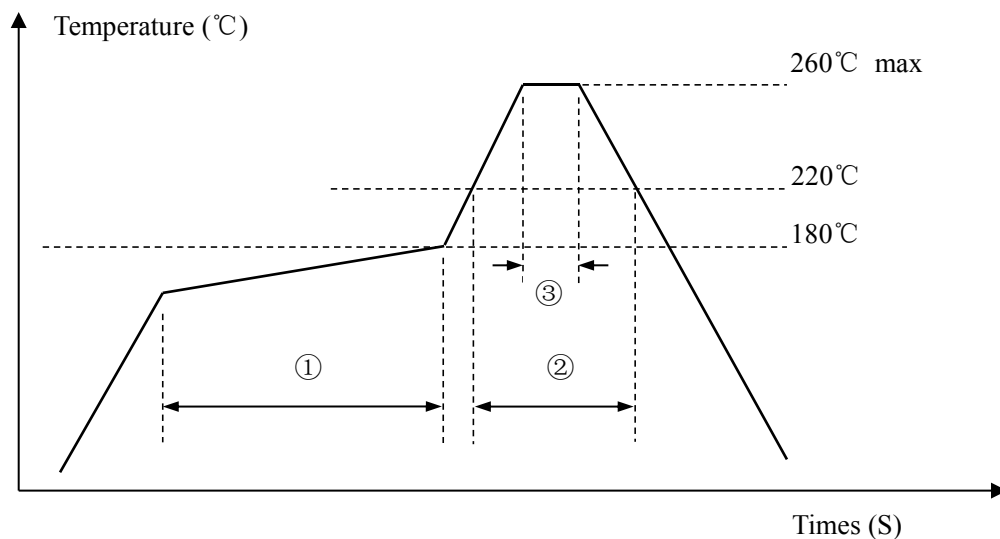
Definition	Description
Operating Temperature Range	A: -10~+60℃
	B: -20~+70℃
	C: -30~+80℃
	D: -40~+85℃
	E: Customer specified

★ TAPING SPECIFICATION (Unit: mm) 编带规格



	A	B	C	D	E	F	G
SMD12.5×4.6	330	24.0±0.3	12.8	5.8	12.0	4.3	100
1000 pcs per reel							

★ REFLOW SOLDERING PROFILE 回流焊特性



Pb free reflow A	①	Preheat	160~180℃	100sec. max
	②	Primary heat	220℃	35sec. max
	③	Peak	260℃	10sec. max