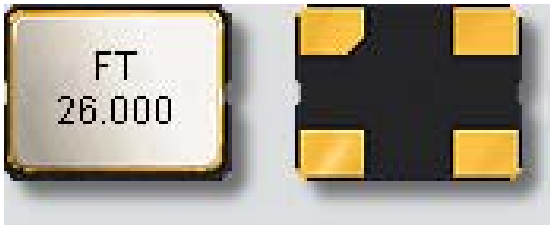




SMD QUARTZ CRYSTAL RESONATOR

石英晶体谐振器



4 Pad Version 5.0×3.2 mm

- ± 10 ppm type available
- Excellent Reliability Performance
- EMI shielding possible by grounded lid
- Reflow soldering temperature: 260°C max
- Ceramic Seam Weld package

RoHS
2002/95/EC

RoHS compliant

★ PARAMETERS

技术参数

PARAMETERS	参数	SPECIFICATION 规格
Frequency Range	频率范围	8~50MHz
Operation Mode	振动模式	Fundamental
Loading Capacitance	负载电容	12pF Std. 8 to 32pF Series available
Drive Level	激励电平	10 μ W (300 μ W Max)
Frequency Tolerance	频率偏差	± 10 ppm~ ± 30 ppm (at 25°C)
Equivalent Resistance	谐振电阻	60 Ω Max
Frequency Stability	频率稳定性	± 5 ppm~ ± 50 ppm
Operating Temp. Range:	工作温度范围	-10~+60°C to -40~+85°C
Storage Temp. Range:	储存温度范围	-40~+85°C

○ All specification subject change without notice. 规格变化, 恕不另行通知。

★ FREQUENCY STABILITY VS. TEMPERATURE 频率温度特性

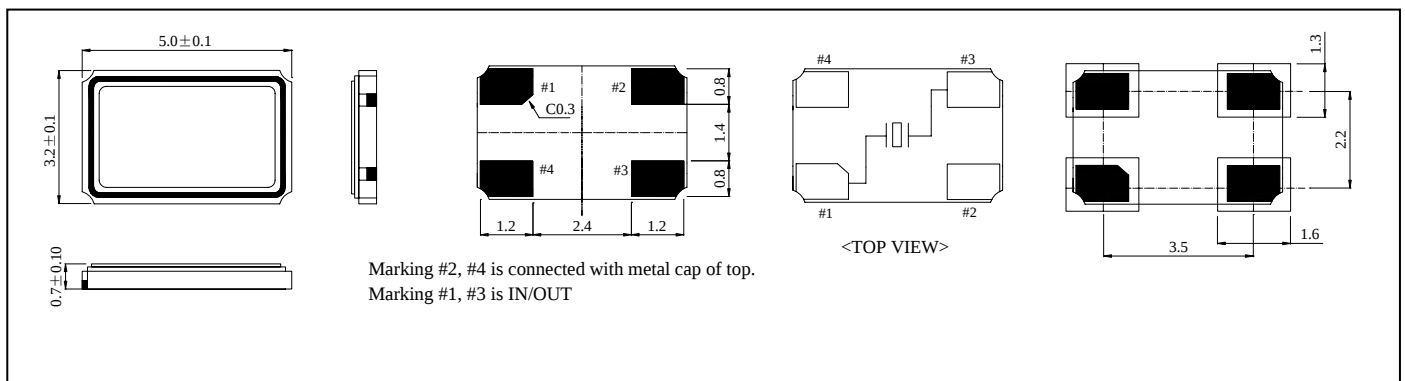
★ ESR (SERIES RESISTANCE RS)

Operation Temperature Range	Frequency Stability					
	± 5 ppm	± 10 ppm	± 15 ppm	± 20 ppm	± 30 ppm	± 50 ppm
-10°C~+60°C	○	●	○	●	○	○
-20°C~+70°C		●	○	○	●	○
-40°C~+85°C				○	○	●

Frequency	Vib. Mode	ESR
8-11.999MHz	AT CUT/FUND.	60 Ω (MAX)
12-15.999MHz	AT CUT/FUND.	50 Ω (MAX)
16-24.999MHz	AT CUT/FUND.	40 Ω (MAX)
25-50.000MHz	AT CUT/FUND.	30 Ω (MAX)

● standard ○ available

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

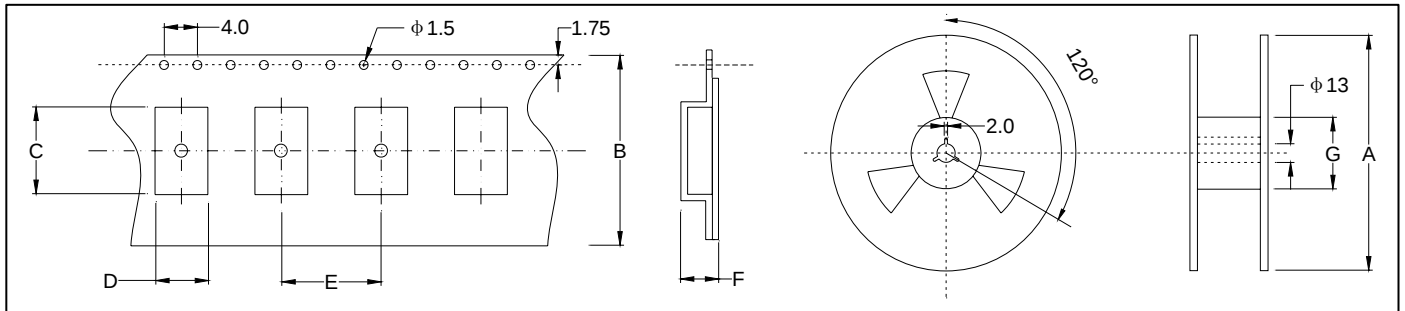


★ PART NUMBER GUIDE 部件号示例

e.g. FTX12.000M12SM5S (*SM5S=5.0×3.2 SMD S-SEAM TYPE)

	Quartz Crystal Resonator 石英晶体谐振器	Frequency 频率 MHz	Load Capacitance 负载电容 pF	Package 盒型
FT	X	12.000M	12	SM5S

★ TAPING SPECIFICATION (Unit: mm) 编带规格



	A	B	C	D	E	F	G
SMD5032	178 ± 2.0	12.0 ± 0.3	5.40 ± 0.10	3.60 ± 0.10	8.0 ± 0.1	1.1 ± 0.1	60.5 ± 1.0
1000 pcs per reel							

★ REFLOW SOLDERING PROFILE 回流焊特性

