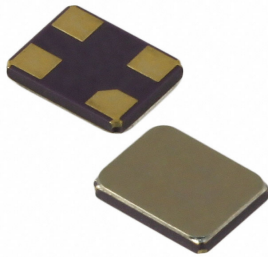


**SMD QUARTZ CRYSTAL RESONATOR****4 Pad Version 4.0×2.5 mm**

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

RoHS
2002/95/

RoHS compliant

★ PARAMETERS

PARAMETERS	SPECIFICATION
Frequency Range	12~60MHz
Operation Mode	Fundamental
Loading Capacitance	9pF Std. 8 to 32pF Series available
Drive Level	10 μ W (300 μ W Max)
Frequency Tolerance	±10ppm~±30ppm (at 25℃)
Equivalent Resistance	80 Ω Max
Frequency Stability	±5ppm~±50ppm
Operating Temp. Range:	-10~+60℃ to -40~+85℃
Storage Temp. Range:	-55~+125℃

○ All specification subject change without notice.

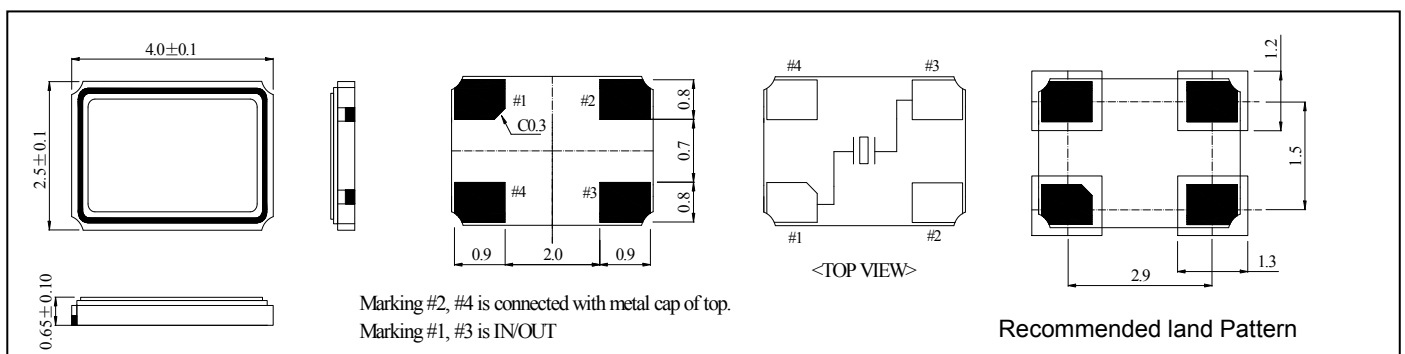
★ FREQUENCY STABILITY VS. TEMPERATURE

peration Temperature Range	Frequency Stability				
	±10ppm	±15ppm	±20ppm	±30ppm	±50ppm
-10℃~+60℃	●	○	○	○	○
-20℃~+70℃	○	○	●	○	○
-40℃~+85℃		○	○	●	○

★ ESR (SERIES RESISTANCE RS)

Frequency	Vibration Mode	ESR
12-15.999MHz	AT CUT/FUND.	80Ω(MAX)
16-19.999MHz	AT CUT/FUND.	60Ω(MAX)
20-25.999MHz	AT CUT/FUND.	50Ω(MAX)
26-60.000MHz	AT CUT/FUND.	40Ω(MAX)

● standard ○ available

★ DIMENSIONS& LAND PATTERN LAYOUT (Unit: mm)

Recommended land Pattern

★ PART NUMBER GUIDE

e.g. FTX16.000M10SM4S-10/10B (*SM4S=4.0×2.5 SMD SEAM TYPE)

Logo	Quartz Crystal Resonator	Frequency Hz	Load Capacitance pF	Package	Frequency Tolerance ppm	Frequency Stability ppm	Operating Temp. Range
FT	X	16.000M	10	SM4S	10	10	B



★ TAPING SPECIFICATION (Unit: mm)

