

SMD QUARTZ CRYSTAL RESONATOR



4 Pad Version 10.4×4.1 mm

- Tuning fork crystal in standard package
- 32.768 KHz standard
- ±10 ppm available
- Excellent Reliability Performance
- Reflow soldering temperature: 260°C max

RoHS
2002/95/EC

RoHS compliant

★ PARAMETERS

PARAMETERS	SPECIFICATION 规格
Frequency Range	32.768KHz standard, 20.000~165.000KHz
Loading Capacitance	12.5pF Std. 6 to 20pF Series available
Drive Level	1.0 μ W Max
Frequency Tolerance	±10ppm ~ ±30ppm (at 25℃)
Equivalent Resistance	50K Ω Max
Temperature coefficient	-0.04×10 ⁻⁶ /℃ ² max
Operating Temp. Range:	-20 ~ +70℃ / -40 ~ +85℃
Storage Temp. Range:	-55 ~ +125℃
Aging (25℃, First Year)	±3ppm max

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

★ FREQUENCY STABILITY VS. TEMP.

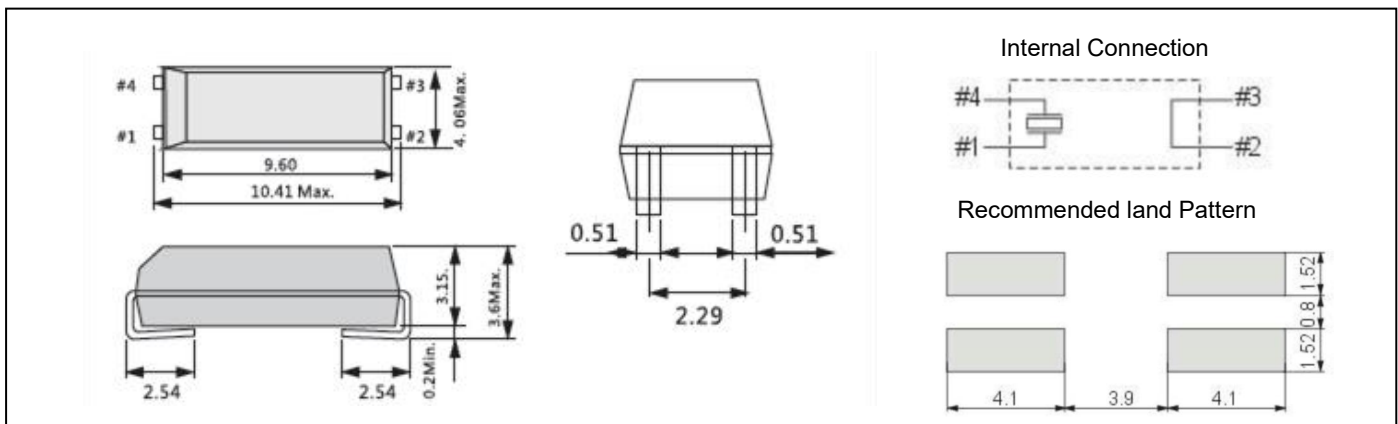
Operation Temperature Range	Frequency Stability	
	-80ppm	-160ppm
-20℃~+70℃	●	
-40℃~+85℃		●

● standard ○ available

★ ESR (SERIES RESISTANCE RS)

Frequency	20-30KHz	30-40KHz	40-70KHz	70-165KHz
ESR	50KΩ (MAX)	45KΩ (MAX)	20KΩ (MAX)	12KΩ (MAX)

★ DIMENSIONS& LAND PATTERN LAYOUT (Unit: mm)



★ PART NUMBER GUIDE

e.g. FTX32.768K12.5SM10B-20D (*SM10B=10.4×4.1 406Type)

	Quartz Crystal Resonator	Frequency Hz	Load Capacitance pF	Package	Frequency Tolerance ppm	Operating Temp. Range
FT	X	32.768KHz	12.5	SM10B	20	D

★ TAPING SPECIFICATION (Unit: mm)

