

■ SMD X-TAL 2.5x2.0mm 4PAD Seam Sealing

- Miniature and lightweight Surface Mount package
- Excellent environmental characteristics for Automotive
- High reliability and Wide temperature range available
- AEC-Q200 compliant
- Applications : Automotive electronics, Infotainment system, ADAS, TPMS, Ethernet etc.

■ Standard Specification

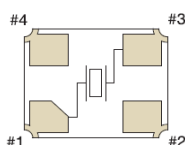
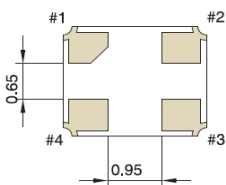
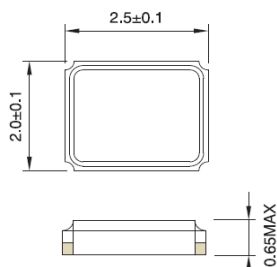
Frequency range	12.000MHz to 54.000MHz	
Oscillation mode	Fundamental	
Load capacitance (CL)	6pF to 32pF or please specify	
Frequency tolerance (25°C)	±10ppm, ±15ppm, ±20ppm, ±30ppm	
Frequency Stability vs Temp range	Temp Stability	Operating temp
	±30ppm ±50ppm ±100ppm ±150ppm or please specify	-40 to +85°C -40 to 105°C -40 to 125°C -40 to 150°C
Storage temperature range	-40°C to +150°C	
Shunt Capacitance (C0)	3.0pF Max	
Level of drive (DL)	100µW Max (std) or please specify	
Aging (Initial first year)	± 3ppm Max	

■ Motional resistance (ESR)

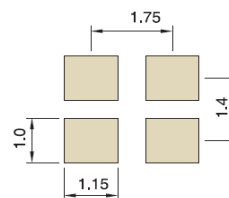
Frequency (MHz)	12 ≤ f < 16	16 ≤ f < 24	24 ≤ f < 32	32 ≤ f < 54
CI (Ω) max	150	100	80	60
Oscillation mode	Fundmental			

*Please contact us for lower ESR

■ Dimensions (mm)



• Recommended Soldering Pattern



CONNECTION

- #1 : X-TAL
- #2 : GND
- #3 : X-TAL
- #4 : GND