

■ SMD X-TAL 2.5×2.0mm 4PAD Seam Sealing

- Ultra miniature and lightweight Surface Mount package
- Fundamental crystal design
- Wide temperature and Ultra low ESR
- AEC-Q200 available
- Applications : Mobile Communications, Wireless applications, Wearables, IoT, Automotive electronics

■ Standard Specification

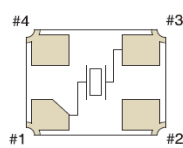
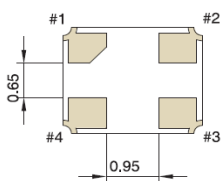
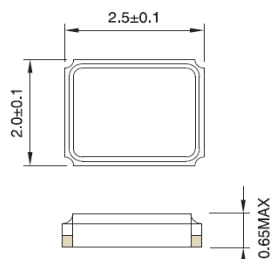
Frequency range	12.000MHz to 80.000MHz	
Oscillation mode	Fundamental	
Load capacitance (CL)	6pF to 32pF or please specify	
Frequency tolerance (25°C)	±10ppm, ±20ppm, ±30ppm	
Frequency Stability vs Temp range	Temp Stability	Operating temp
	±10ppm	-20 to +70°C
	±15ppm	-30 to +85°C
	±20ppm	-40 to +85°C
	±30ppm	-40 to 105°C
±50ppm	-40 to 125°C	
Storage temperature range	-55°C to +125°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)

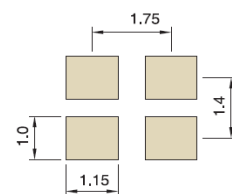
Frequency (MHz)	12 ≤ f < 16	16 ≤ f < 24	24 ≤ f < 32	32 ≤ f < 80
Cl (Ω) max	150	80	50	40
Oscillation mode	Fundamental			

*Please contact us for lower ESR

■ Dimensions (mm)



• Recommended Soldering Pattern



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