

■ SMD X-TAL 3.2×2.5mm 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

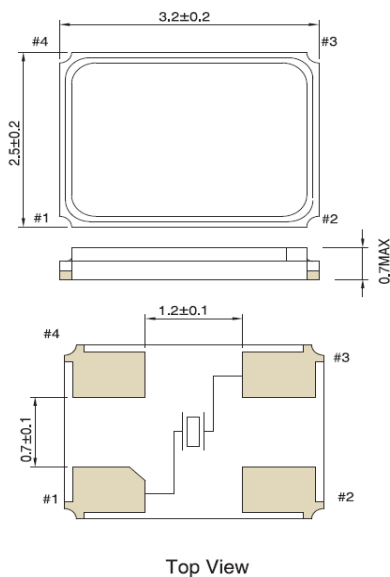
Frequency range	8.000MHz to 54.000MHz	
Oscillation mode	Fundamental	
Load capacitance (CL)	6pF to 32pF or please specify	
Frequency tolerance (25°C)	±10ppm, ±15ppm, ±20ppm, ±30ppm	
Frequency Stability vs Temp range	Temp Stability	Operating temp
	±30ppm ±50ppm ±100ppm ±150ppm or please specify	-40 to +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)

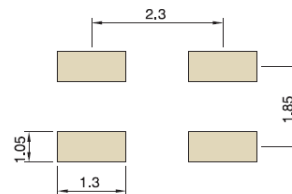
Frequency (MHz)	$8 \leq f < 12$	$12 \leq f < 20$	$20 \leq f < 30$	$30 \leq f < 54$
Cl (Ω) max	400	150	80	60
Oscillation mode	Fundamental			

*Please contact us for lower ESR

■ Dimensions (mm)



• Recommended Soldering Pattern



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