

A low profile smd enclosure in which precision AT cut crystals may be encapsulated. The SMX-8 utilises a resistance weld seal and is assembled in a dry Nitrogen environment.

Excellent heat transfer through the metal and ceramic package provide opportunities to improve thermal designs for OCXO.

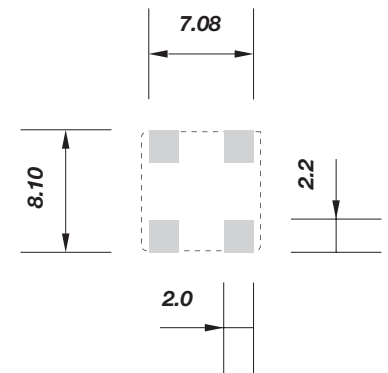
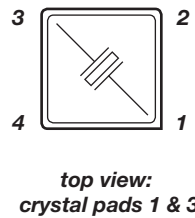
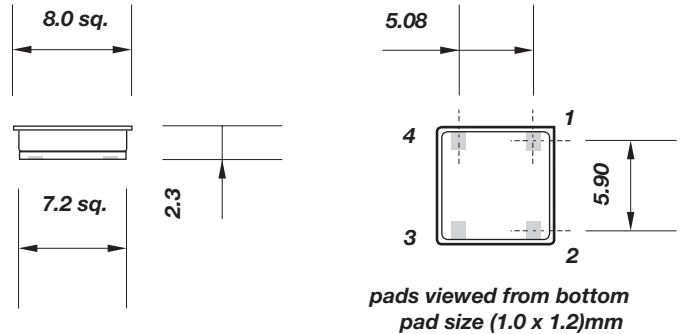
Four point mounting results in excellent shock and vibration performance with good immunity to G sensitivity.

Custom specified with typical data as follows:

Specification data:

Environment	Dry Nitrogen
Quartz orientation	AT cut
Frequency range	(6 ~ 30)MHz fundamental ESR (5 ~ 35) Ω (20 ~ 70)MHz 3rd overtone ESR (18 ~ 50) Ω (60 ~ 130)MHz 5th overtone ESR (40 ~ 90) Ω (80 ~ 200)MHz 7th overtone ESR (60 ~ 130) Ω
Adjustment tolerance	from ±2ppm at ref. temp. frequency dependent
Thermal stability	OCXO turn point from ±3°C TCXO from ±0.5° equivalent Ø angle XO from ±3ppm temperature dependent
Operating temperature	(-40 ~ +125)°C custom specified
Storage temperature	(-40 +125)°C
Load	custom specified
Shunt capacitance C₀	(1.5 ~ 6.5)pF
Suggested drive level	(5 ~ 150)µW
Ageing - frequency dependent	±2ppm typical, first year max.
Insulation resistance	500Meg. Ω min. at 100Vd.c.

Dimensions(mm)



suggested land pattern

pads are gold 2.5µ min. over nickel, suitable for vapour phase or reflow soldering, preheat +150°C for 2 minutes, peak temperature +250°C for 30 seconds max.