

A sub miniature, ultra thin ceramic smd crystal available over the fundamental frequency range of 16MHz to 54MHz.

The modern standard package for volume applications combining small size and tight tolerance over an extended temperature range.

8 mm tape and reel packaging for automated assembly; 1000, 2000 or 3000 pieces per reel or bulk packed.

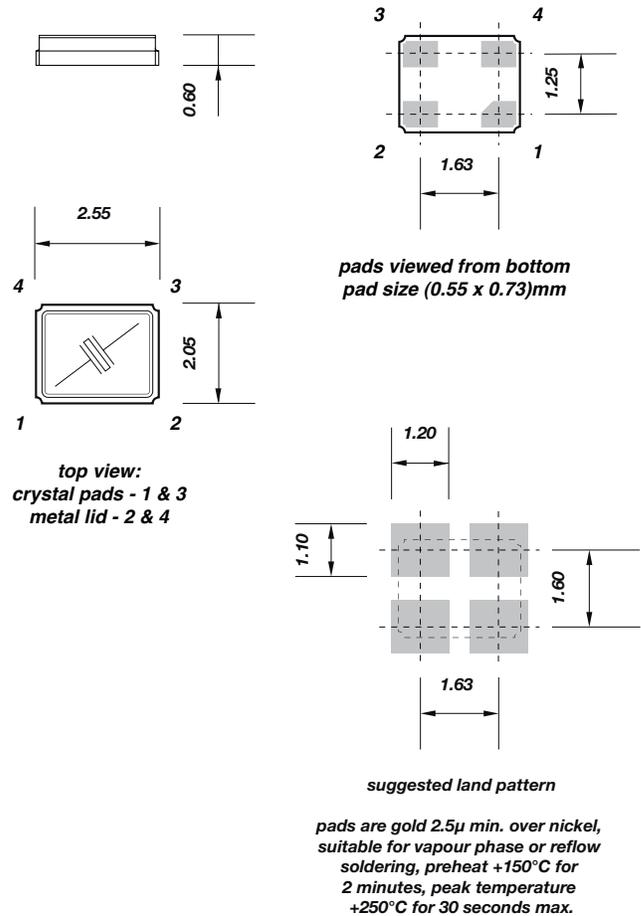
Applications include; Bluetooth, Mobile Telephone, Wireless lan, Office automation, Audio and Video.

Custom specified with typical data as follows:

Specification data:

Environment	dry nitrogen
Quartz orientation	AT cut
Frequency range	(16 ~ 54)MHz fundamental esr 100Ω max. (16 ~ 20)MHz esr 80Ω max. (20 ~ 30)MHz esr 60Ω max. (30 ~ 54)MHz from ±10ppm at ref. temp. frequency dependent
Adjustment tolerance	
Operating temperature	(-10 +60)°C, (-20 +70)°C, (-40 +85)°C, custom specified
Storage temperature	(-40 +85)°C
Load	custom specified
Shunt capacitance	7pF max.
Suggested drive level	(10 ~ 100)μW
Ageing	±1ppm typical, first year max.
Insulation resistance	500Meg. Ω min. at 100Vd.c.

Dimensions(mm)



Frequency stability vs temperature range:

stability	temperature range		
±5ppm	(-10 +60)°C		
±10ppm	(-10 +60)°C	(-20 +70)°C	
±15ppm	(-10 +60)°C	(-20 +70)°C	(-40 +85)°C