



### Features and Benefits

- 1.6x1.2mm size ultra miniature and lightweight SMD crystal units with low profile of 0.35mm
- Frequency range from 24MHz to 54MHz
- High precision and high frequency stability
- High reliable environmental performance
- Automatic mounting and reflow soldering
- RoHS Compliant /Pb Free

### Typical Applications

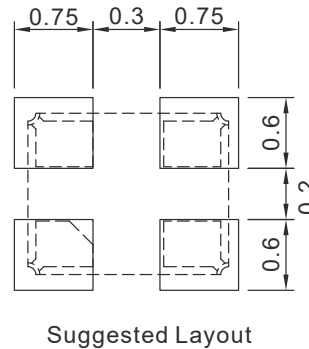
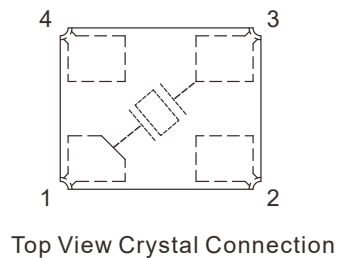
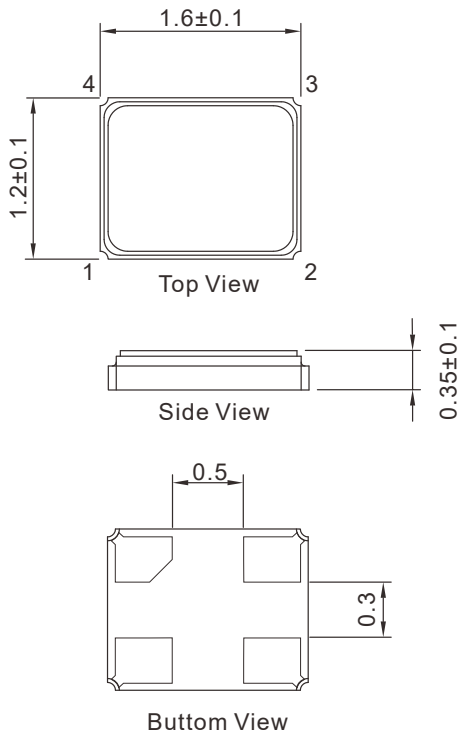
- wireless communications
- Smart phone
- Wearable device, etc.

### Description

XTAL1612AL offers frequency range from 24MHz to 54MHz, High precision and high frequency stability, Allowing for high density surface mounting, Ideally suited designed for use in Portable Applications.

### Mechanical Drawing & Pin Connections

Drawing No: MD200009-1



Unit in mm  
1mm = 0.0394 inches



### Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F		24		54	MHz	
Load Capacitance			8pF, 10pF, or specify			pF	
Shunt Capacitance	C0				5	pF	
Drive Level			1	50	200	uW	
Equivalent Series Resistance (Fundamental)		24-30 MHz			100	ohm	
		30-54 MHz			80	ohm	
<b>Frequency Stability</b>							
Frequency Stability		Over Operating Temperature	±10ppm, ±20ppm, or specify			ppm	
Frequency Tolerance		(at 25°C)	±10ppm, ±20ppm, or specify			ppm	
Aging		@+25°C 1st year			±3	ppm	
<b>Environmental Conditions</b>							
Operating temperature range		-20°C to +70°C					
Storage temperature range		-55°C to +125°C					