



Features and Benefits

5.0x3.2 mm size ultra-miniature and lightweight SMD crystal units with low profile of 0.9mm
Frequency range from 8MHz to 125MHz
High precision and high frequency stability
Allowing for high density surface mounting
Automatic mounting and reflow soldering
RoHS Compliant /Pb Free

Typical Applications

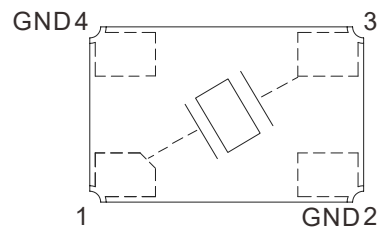
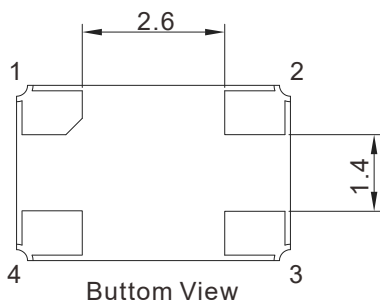
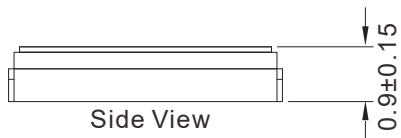
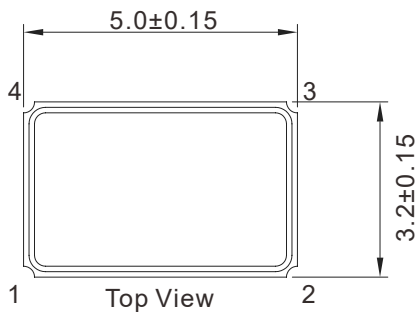
Wireless communications
PC, Server, FA, Camera,, Wearable device, etc.

Description

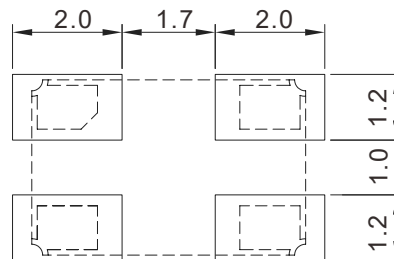
XTAL5300AL offers frequency range from 8MHz to 125MHz, High precision and high frequency stability, allowing for high density surface mounting, Ideally suited designed for use in Portable Applications.

Mechanical Drawing & Pin Connections

Drawing No: MD20001' -1



Top View Crystal Connection



Suggested Layout

Unit in mm
1mm = 0.0394 inches



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XTAL) ' \$\$\$\$
SMD Crystal Units

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F		8		125	MHz	
Load Capacitance			10pF, 16pF, 20pF or specify			pF	
Shunt Capacitance	C0				5	pF	
Drive Level			1	100	200	uW	
Equivalent Series Resistance (Fundamental)		8~12 MHz			80	ohm	
		12~54 MHz			40	ohm	
Equivalent Series Resistance (3rd Overtone)		40~60 MHz			120	ohm	
		60~125 MHz			80	ohm	
Frequency Stability							
Frequency Stability		Over Operating Temperature	±10ppm, ±30ppm, or specify			ppm	
Frequency Tolerance		(at 25°C)	±10ppm, ±30ppm, or specify			ppm	
Aging		@+25°C 1st year			±3	ppm	
Environmental Conditions							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125°C					