



Features and Benefits

3.2x2.5mm size ultra-miniature and lightweight SMD crystal units with low profile of 0.7 mm
Frequency range from 10MHz to 64MHz
High precision and high frequency stability
Allowing for high density surface mounting
Automatic mounting and reflow soldering
RoHS Compliant /Pb Free

Typical Applications

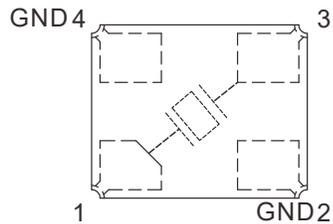
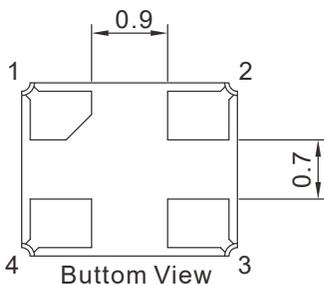
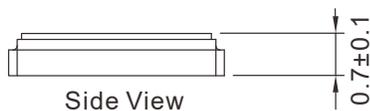
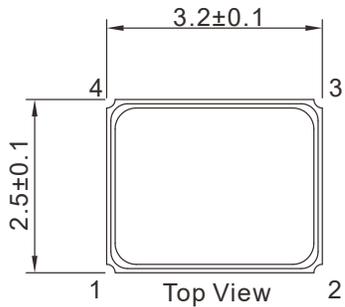
Wireless communications
DVC, PC, DSC, PDA, Wearable device, etc.

Description

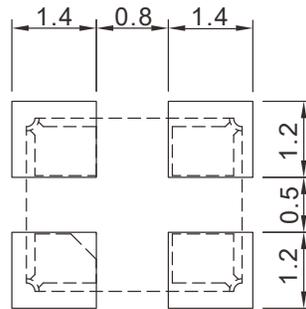
XTAL3225AL offers frequency range from 10MHz to 64MHz, High precision and high frequency stability, allowing for high density surface mounting, Ideally suited designed for use in Portable Applications.

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' &&) AL
SMD Crystal Units

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F		10		64	MHz	
Load Capacitance			8pF, 10pF, 12pF or specify			pF	
Shunt Capacitance	C0				5	pF	
Drive Level			1	100	200	uW	
Equivalent Series Resistance (Fundamental)		10~16 MHz			100	ohm	
		16~20 MHz			80	ohm	
		20~64 MHz			60	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					