



Features and Benefits

- 7.0x5.0mm size miniature SMD crystal units with a low profile of 1.0mm
- Wide frequency range from a comparatively 6MHz to 160MHz
- High precision and high reliability
- Automatic mounting and reflow soldering
- RoHS Compliant /Pb Free

Typical Applications

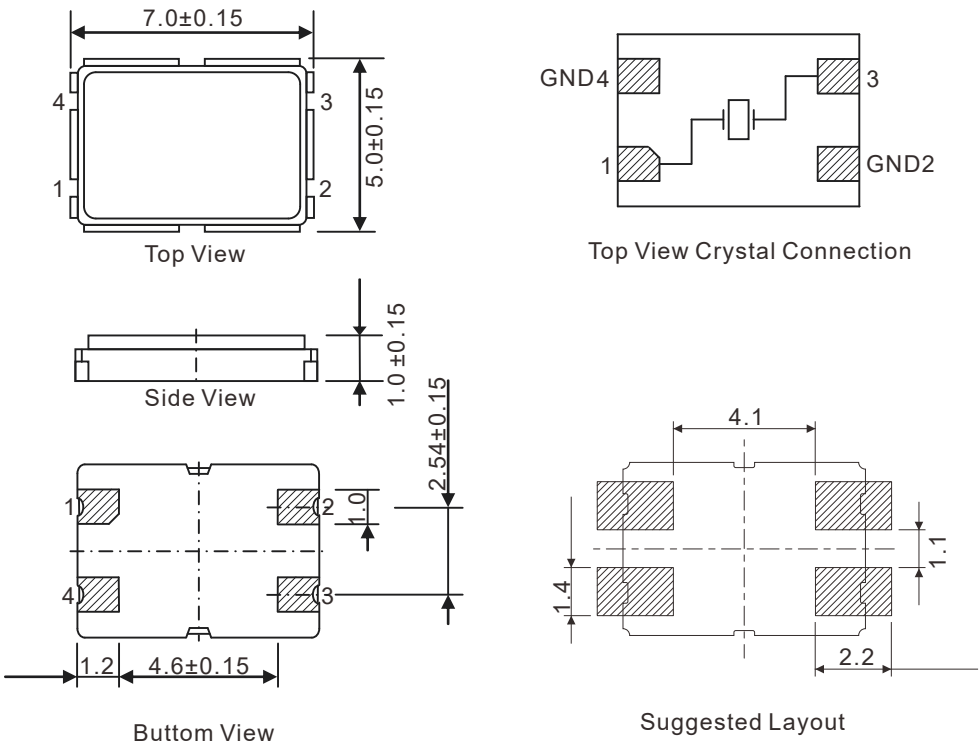
- Telecommunications,
- Server,
- MCU, PLC, M2M, etc.

Description

XTAL7500AL offers frequency range from 6MHz to 160MHz, 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



Unit in mm
1mm = 0.0394 inches



Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F		6		160	MHz	
Load Capacitance			16pF, 20pF, 30pF, or specify			pF	
Shunt Capacitance	C0				5	pF	
Drive Level			1	100	200	uW	
Equivalent Series Resistance (Fundamental)		6~10 MHz			100	ohm	
		10~12 MHz			60	ohm	
		12~30 MHz			50	ohm	
Equivalent Series Resistance (3rd Overtone)		30~80 MHz			90	ohm	
		80~100 MHz			90	ohm	
		100~160 MHz			100	ohm	
Frequency Stability							
Frequency Stability		Over Operating Temperature	±10ppm~±50ppm, or specify			ppm	
Frequency Tolerance		(at 25°C)	±10ppm~±50ppm, 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				