



Features and Benefits

Frequency range: 12.8MHz

Load capacitance: 8pF

Drive level: 100uW

Stability: ± 10 PPM

Operating temperature: -20°C to $+70^{\circ}\text{C}$

Size: 7X5X1.2mm

Typical Applications

Bluetooth wireless communication sets

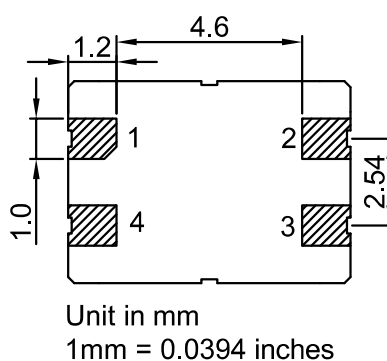
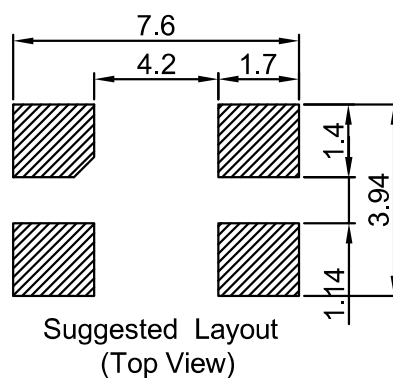
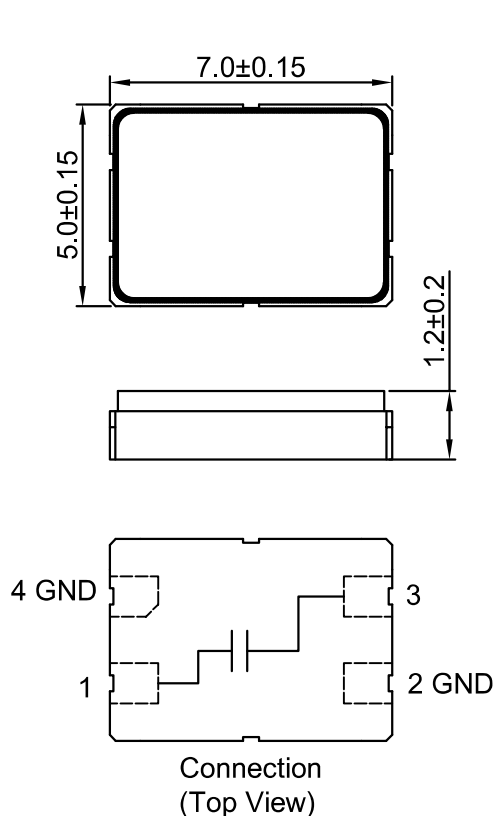
DSN, PDA and Mobile Phone

Description

XTAL7500AL-12.8MHz-A offers 12.8MHz frequency, 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: MD230034-1





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XTAL7500AL-12.8MHz-A

12.8MHz SMD Crystal Units

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency	F			12.8		MHz	
Mode			AT/Fundamental				
Load Capacitance	C _L		8			pF	
Shunt Capacitance	C ₀				5	pF	
Drive Level				100		uW	
Equivalent Series Resistance					80	ohm	
Frequency Stability							
Frequency Stability		Over Operating Temperature	±10			ppm	
Frequency Tolerance		(At 25°C)	±10			ppm	
Aging		@+25°C 1st year			±3	ppm	
Environmental Conditions							
Operating temperature range		-20°C to +70°C					
Storage temperature range		-40°C to +85°C					