



### Features and Benefits

Frequency range: 40MHz  
Load capacitance: 9.0pF  
Drivel level: 100uW  
Stability: ±10ppm  
Operating temperature: -30°C to +85°C  
Size: 1.6X1.2X0.35mm

### Typical Applications

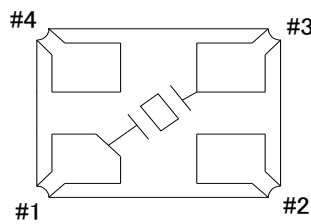
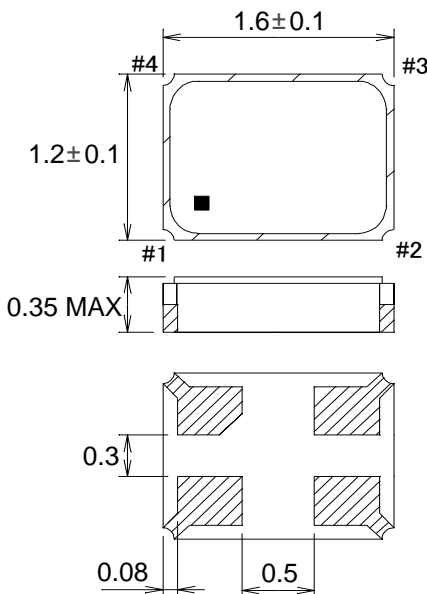
Wireless communications  
PC  
Server  
Camera  
Wearable device, etc.

### Description

XTAL1612CU-40MHz-A offers 40MHz 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

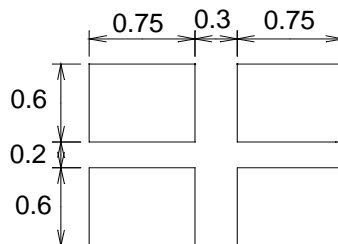
**Drawing No:** MD240048-1



Pin	Function
#1	Xtal terminal (Input)
#2	GND terminal
#3	Xtal terminal (Output)
#4	N/C

Unit in mm  
1mm = 0.0394 inches

#### LAND PATTERN





**Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency	F			40		MHz	
Mode			Fundamental				
Load Capacitance	CL			9.0		pF	
Shunt Capacitance	C0				3	pF	
Drive Level	DL				100	uW	
Equivalent Series Resistance	ESR				40	ohm	
Insulation Resistance	IR	@DC 100V	500			M-ohm	
<b>Frequency Stability</b>							
Frequency Stability		@ -30°C to +85°C, Reference +25°C	-10		+10	ppm	
Frequency Tolerance		@ 25±2°C	-10		+10	ppm	
Aging per year		@25±2°C		±3		ppm	
<b>Environmental Conditions</b>							
Operating temperature range		-30°C to +85°C					
Storage temperature range		-40°C to +105°C					
ESD		HBM > 4000V, ANSI/ESDA/JEDEC JS-001					
MSL		Level 1, J-STD-020					