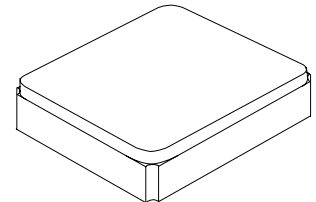


Preliminary



XTL1024

**40.00000 MHz
Crystal Unit**



SM1612-4 Case

- Surface Mount Seam Weld Package
- Excellent Frequency Stability over Temperature
- Ultra-miniature Package
- Complies with Directive 2002/95/EC (RoHS)

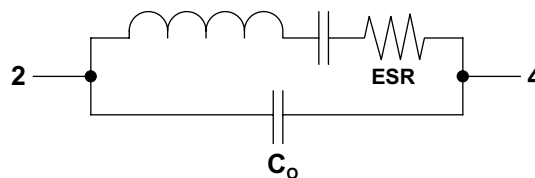


The XTL1024 is a surface mount 1.6 x 1.2 mm crystal unit for use in wireless telecommunications devices, especially where an ultra-miniature package is needed for mobility.

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Frequency	F_O			40.00000		MHz
Mode of Oscillation			Fundamental			
Frequency Tolerance at 25 ±3 °C					±10	ppm
Storage Temperature Range in Tape and Reel			-40		+85	°C
Operating Temperature Range			-20		+75	°C
Frequency Stability over Operating Temperature Range		2			±10	ppm
Aging				±1		ppm/yr
Equivalent Series Resistance	ESR				200	Ω
Drive Level				10	100	uW
Shunt Capacitance	C_O				5	pF
Load Capacitance	C_L			8		pF
Insulation Resistance			500 MΩ min @ 100V DC			
Lid Symbolization				3E//YW		

Crystal Equivalent Circuit



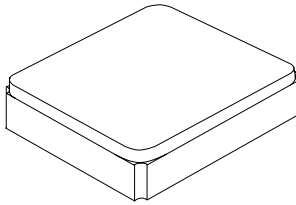
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

1. The design, manufacturing process, and specifications of this device are subject to change without notice.
2. Referenced to crystal frequency at 25 °C.

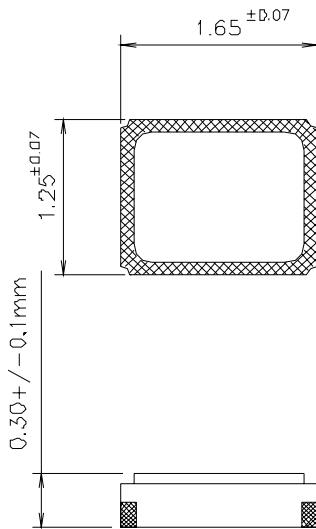
SM1612-4

4-Terminal Ceramic Surface-Mount Case 1.6 X 1.2 mm Nominal Footprint

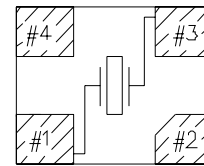


Electrical Connections

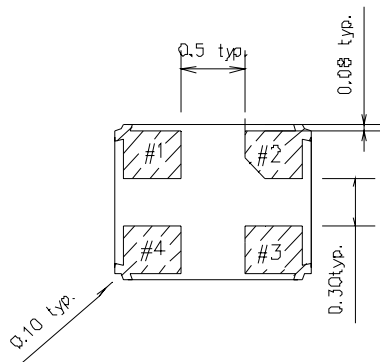
Connection	Terminals
Input / Output	1
Metal Cover	2
Input / Output	3
No Connection	4



Internal Connections (Top View)



[NOTE] #4=NC, #2 is connected with a metal cover



Dimensions in mm