


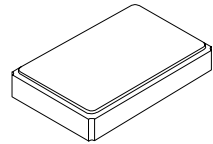


- **Ultra-miniature Surface Mount Seam-Weld Package**
- **Good Frequency Stability over Temperature**
- **Excellent Reliability**
- **Complies with Directive 2002/95/EC (RoHS)** 

The XTL1012 is a surface mount 2.5 x 2.0 x 0.6 mm crystal unit for use in wireless telecommunications devices, especially where an ultra-miniature package is needed for mobility.

XTL1012

**24.26500 MHz
Crystal Unit**

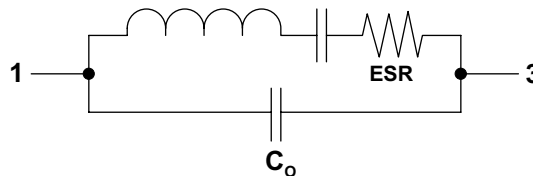


SM2520-4 Case

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Frequency	F_O			24.26500		MHz
Mode of Oscillation			Fundamental			
Storage Temperature Range			-40		+85	°C
Operating Temperature Range			-40		+85	°C
Frequency Stability over Operating Temperature Range			± 15 ppm (referred to the value at 25 °C)			
Frequency Make Tolerance	F_L		± 10 ppm @ 25 °C ± 3 °C			
Equivalent Series Resistance	ESR				60	Ω
Nominal Drive Level				10		μW
Shunt Capacitance	C_O				1	pF
Load Capacitance	C_L			12		pF
Aging			1 ppm/year			
Standard Shipping Quantity on 178 mm (7") Reel				3000		units
Lid Symbolization (in addition to Lot and/or Date Codes)	2D <u>YW</u>					

Crystal Equivalent Circuit



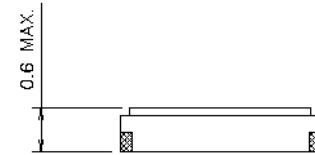
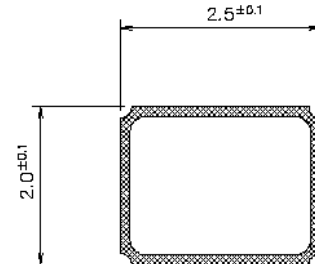
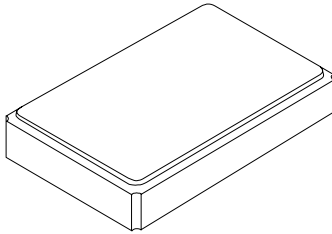
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

1. The design, manufacturing process, and specifications of this device are subject to change without notice.

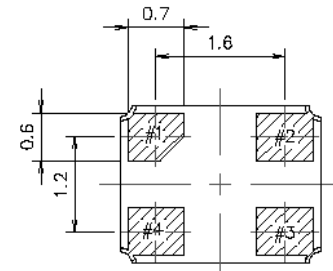
SM2520-4 Case

4-Terminal Surface-Mount Case 2.5 x 2.0 mm Nominal Footprint

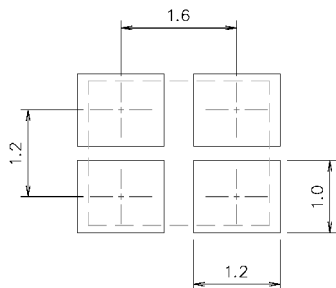


Electrical Connections

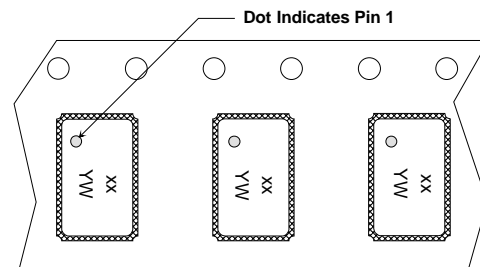
Pin	Connection
1	IN/OUT
2	GND
3	IN/OUT
4	GND



Package Dimensions (mm)

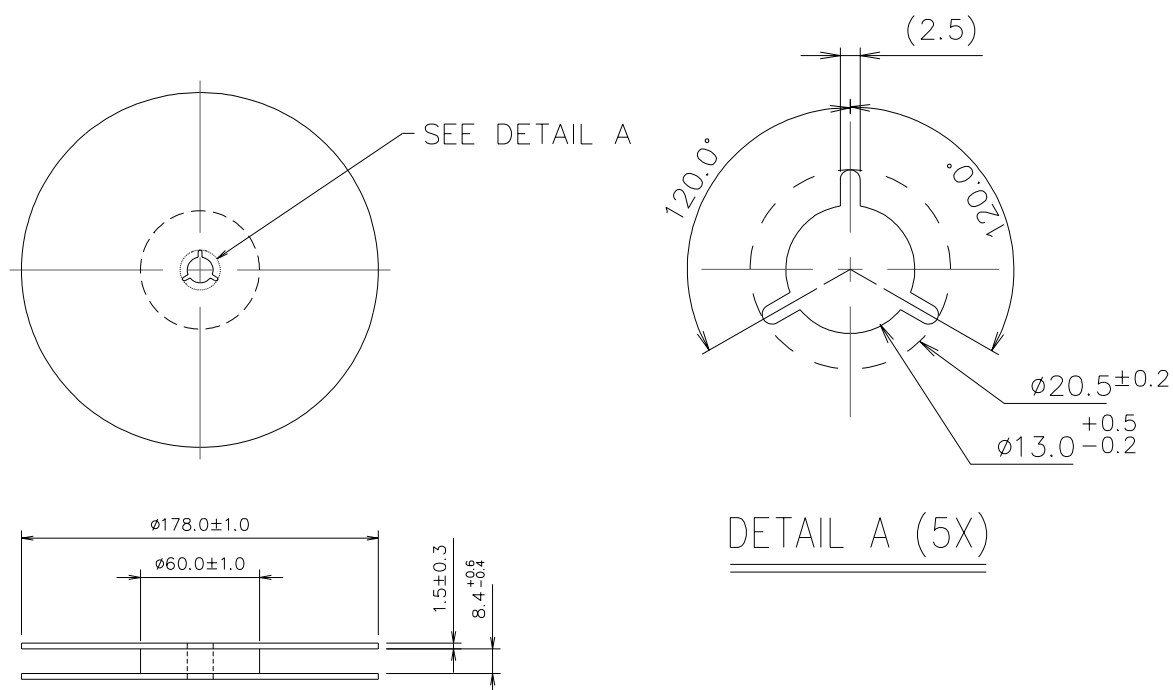


Land Pattern (mm)



Package Orientation in Carrier Tape

Reel Dimensions



Tape Dimensions

