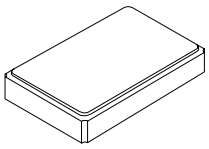
XTL1010

12.00000 MHz Crystal Unit

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

The XTL1010 is a surface mount 5.0 x 3.2 mm crystal unit for use in wireless telecommunications devices, especially where an ultra-miniature package is needed for mobility.

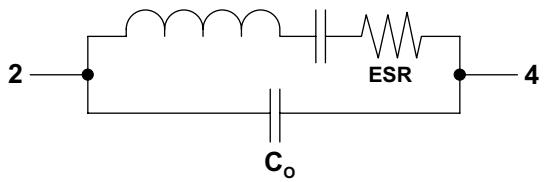


SM5032-4 Case

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Frequency				12.00000		MHz
Mode of Oscillation				Fundamental		
Storage Temperature Range			-40		+85	°C
Operating Temperature Range			-10		+60	°C
Frequency Stability over Operating Temperature Range				±30 ppm (referred to the value at 25°C)		
Frequency Make Tolerance	F_L			±30 ppm @ 25°C ±3°C		
Equivalent Series Resistance	ESR				60	Ω
Nominal Drive Level				10		uW
Shunt Capacitance	C_O				3.0	pF
Load Capacitance	C_L			12		pF
Motional Capacitance	C_M			4.0 fF ±20%		
Insulation Resistance				500MΩ min @ 100 VDC		
Aging				±1.0 ppm/year @25°C		
Stanard Shipping Quantity on 330 mm (13") Reel				3000		units
Lid Symbolization (in addition to Lot and/or Date Codes)				Line 1: 1010 Line 2: YWWS		

Crystal Equivalent Circuit



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

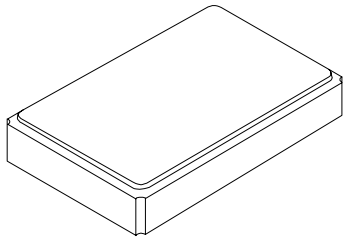
1. The design, manufacturing process, and specifications of this device are subject to change without notice.

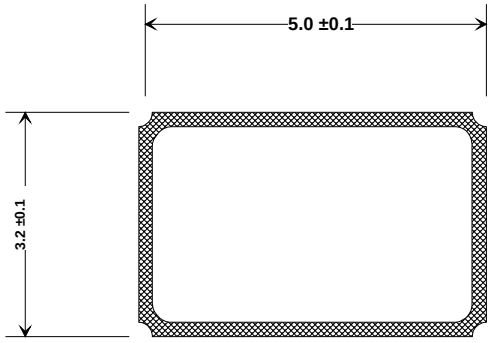
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SM5032-4 Case

4-Terminal Surface-Mount Seam Weld Case

5.0 x 3.2 mm Nominal Footprint

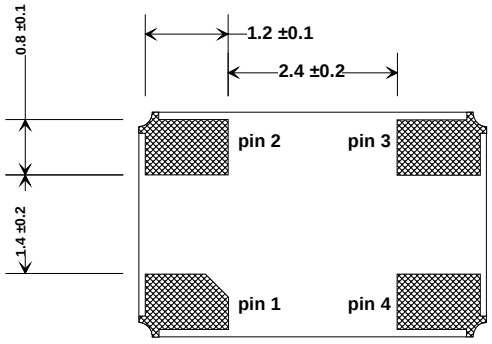




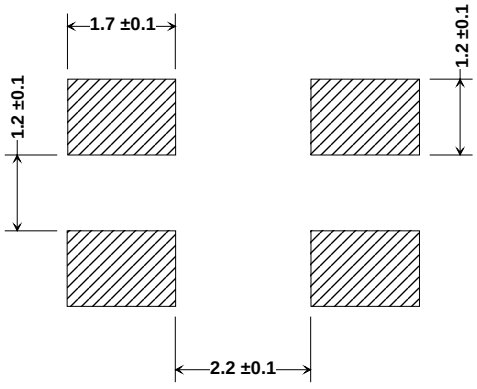
Electrical Connections

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

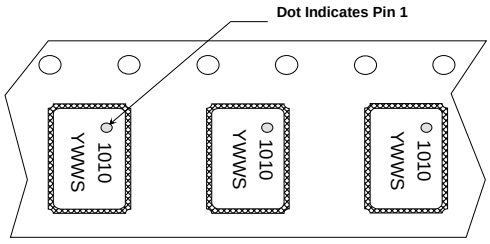




Package Dimensions (mm)



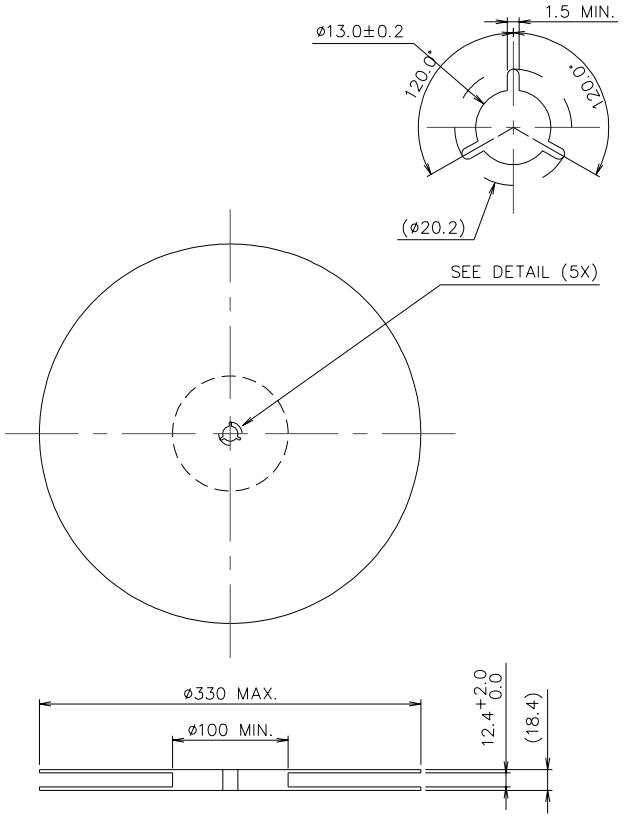
Footprint (mm)



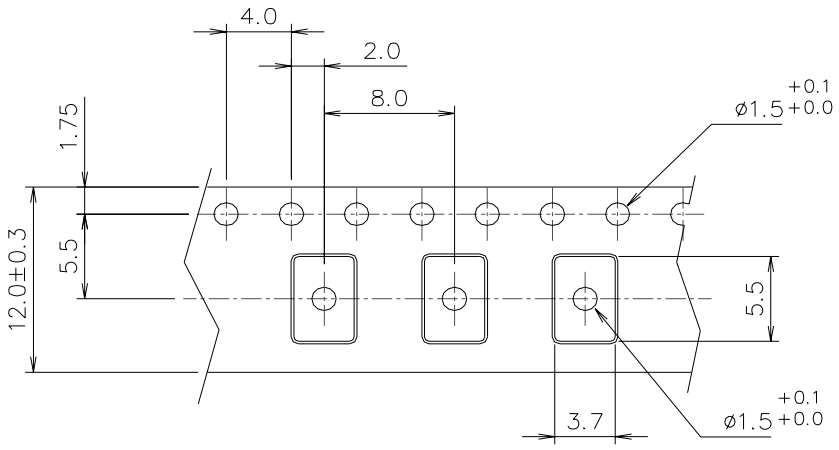
Package Orientation in Carrier Tape

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Reel Dimensions



Tape Dimensions



Notes:

1. Unless otherwise specified, tolerance on dimensions is ±0.1 mm
2. Material is black conductive polystyrene
3. 10 pitch cumulative tolerance is ±0.2 mm

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