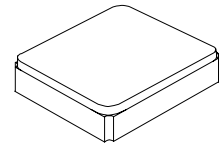




XTL1018

**24.26500 MHz
Crystal Unit**



SM2016-4

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

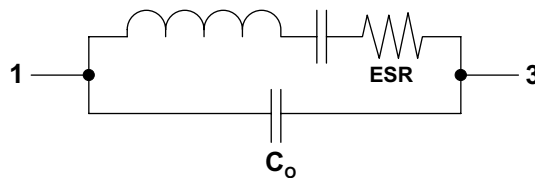


The XTL1018 is a surface mount 2.0 x 1.6 mm crystal unit for use in wireless telecommunications devices, especially where an ultra-miniature package is needed for mobility.

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
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			±30 ppm			
Equivalent Series Resistance	ESR				60	Ω
Nominal Drive Level			8	10	12	uW
Shunt Capacitance	C _O				2	pF
Load Capacitance	C _L			12		pF
Insulation Resistance			500 MΩ min @ 100V DC			
Aging			±1.0 ppm			
Standard Shipping Quantity on 178 mm (7") Reel				1000		units
Lid Symbolization (in addition to Lot and/or Date Codes)			2Q // YW			

Crystal Equivalent Circuit



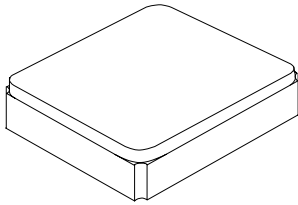
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

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

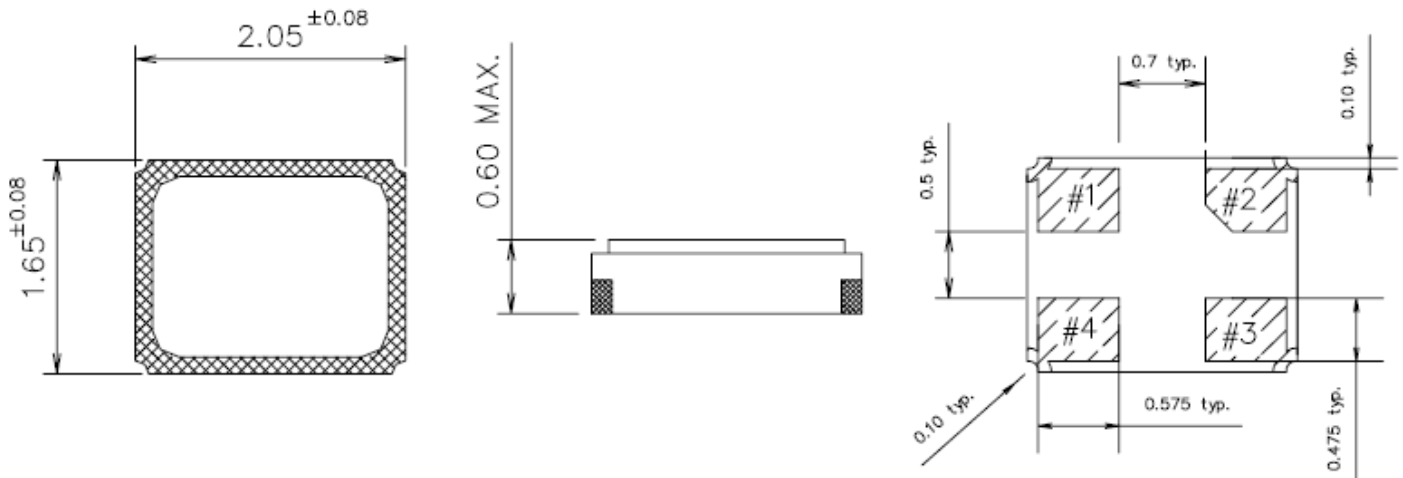
SM2016-4 Case

4-Terminal Ceramic Surface-Mount Case 2.0 X 1.6 mm Nominal Footprint

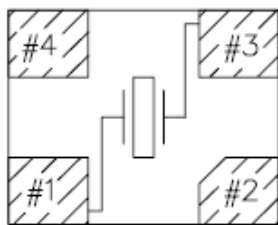


Electrical Connections

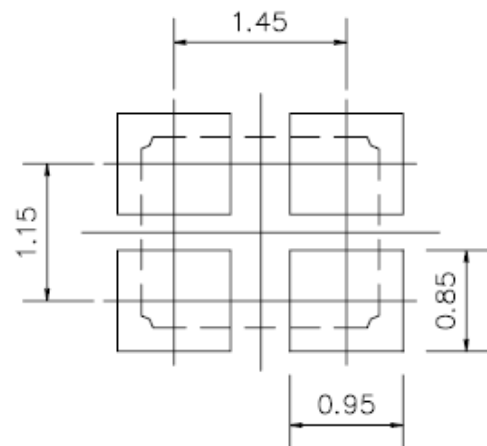
Connection	Terminals
Input / Output	1
Input / Output	3
Ground	2 & 4



Internal Connections (Top View)

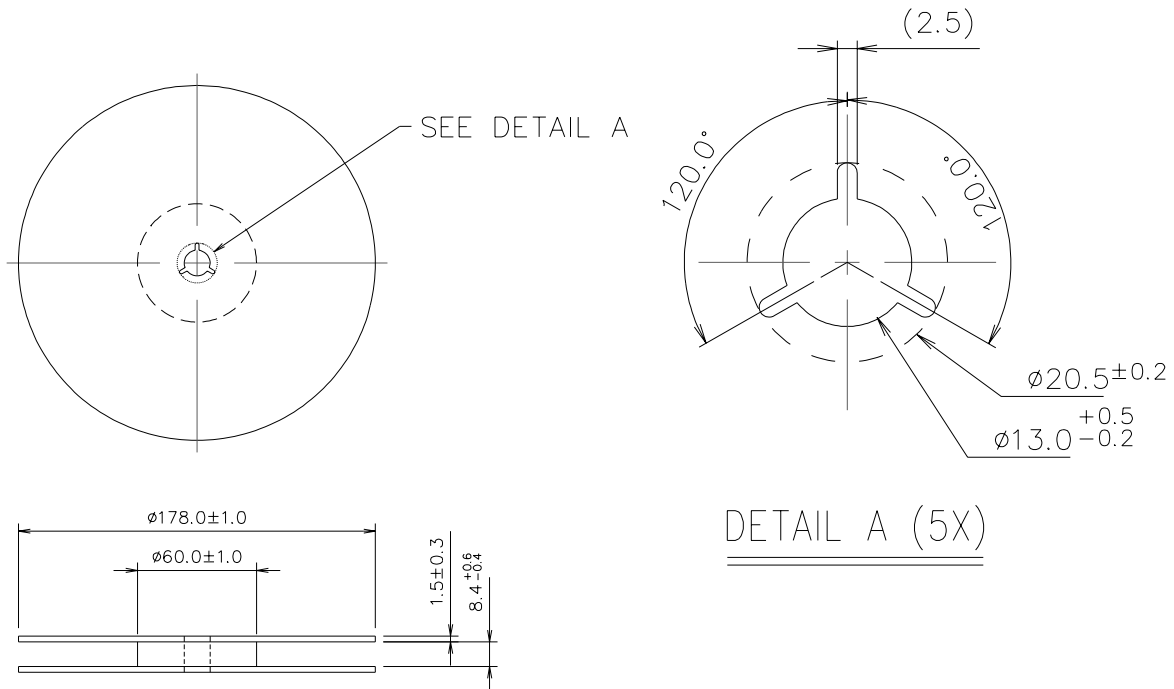


[NOTE] #2=NC, #4 is connected with a metal cover

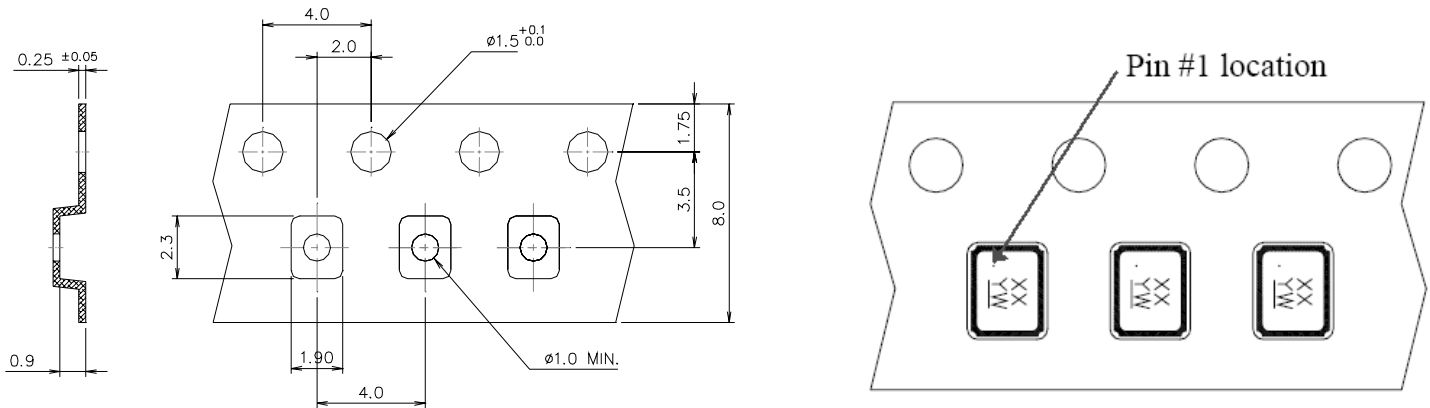


Recommended Land Pattern

Reel Dimensions (mm):



Tape Dimensions (mm):



NOTE:

1. Unless otherwise specified tolerance on dimension ± 0.1 mm.
2. Material: conductive polystyrene with color black.
3. 10 pitch cumulative tolerance ± 0.2 mm.