

• Surface Mount Seam Weld Package

• Excellent Frequency Stability over Temperature

• Ultra-Miniature Seam Welded Package

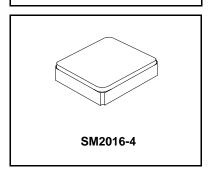
• Complies with Directive 2002/95/EC (RoHS)



The XTL1019 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.

XTL1019

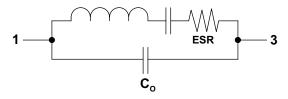
48.53000 MHz Crystal Unit



Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Frequency	Fo			48.53000		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				50	Ω
Nominal Drive Level			8	10	12	uW
Shunt Capacitance	Co				2	pF
Load Capacitance	C _L			12		pF
Insulation Resistance			500 MΩ min @ 100 VDC			
Aging			±1.0 ppm			
Stanard Shipping Quantity on 178 mm (7") Reel				1000		units
Lid Symbolization (in addition to Lot and/or Date Codes)		2R // YW				

Crystal Equivalent Circuit





CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

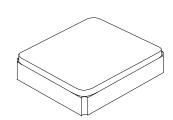
1. The design, manufacturing process, and specifications of this device are subject to change without notice.

SM2016-4 Case

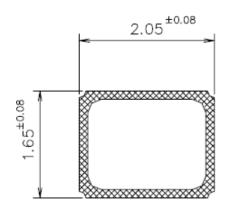
4-Terminal Ceramic Surface-Mount Case

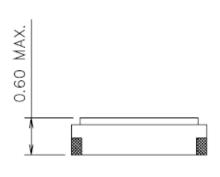
2.0 X 1.6 mm Nominal Footprint

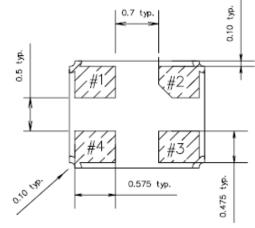
Electrical Connections



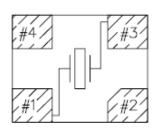
Connection	Terminals		
Input / Output	1		
Input / Output	3		
Ground	2 & 4		



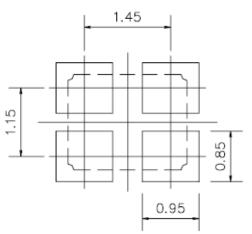




Internal Connections (Top View)

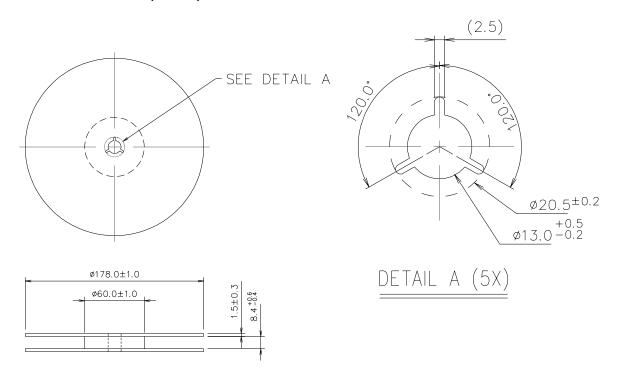


[NOTE] #2=NC, #4 is connected with a metal cover

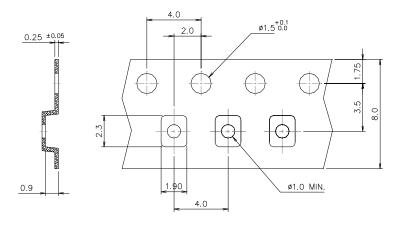


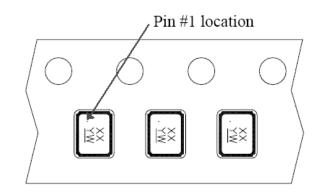
Recommended Land Pattren

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.