




**XTL1017**

**30.00000 MHz  
Crystal Unit**



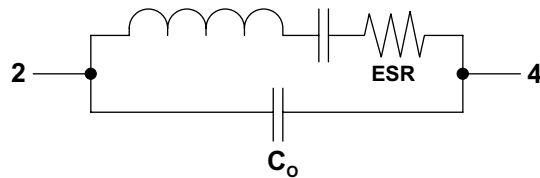
- **Seam Weld Surface Mount Package**
- **Good Frequency Stability over Temperature**
- **Excellent Reliability**
- **Complies with Directive 2002/95/EC (RoHS)** 

The XTL1017 is a surface mount 3.2 x 2.5 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 <sub>O</sub>			30.00000		MHz
Mode of Oscillation			Fundamental			
Storage Temperature Range			-40		+105	°C
Operating Temperature Range			-40		+105	°C
Frequency Stability over Operating Temperature Range			±20 ppm (referred to the value at 25°C)			
Frequency Make Tolerance	F <sub>L</sub>		±15 ppm @ 25 °C ±3 °C			
Equivalent Series Resistance	ESR				40	Ω
Nominal Drive Level				10		uW
Load Capacitance	C <sub>L</sub>			20		pF
Aging			±1.0 ppm/year @25 °C			
Insulation Resistance			500 MΩ min @ 100 VDC			
Standard Shipping Quantity on 178 mm (7") Reel				3000		units
Lid Symbolization (in addition to Lot and/or Date Codes)	Line1: 1017 Line2: YWWS					

**Crystal Equivalent Circuit**



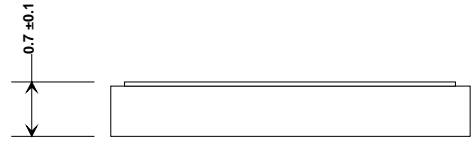
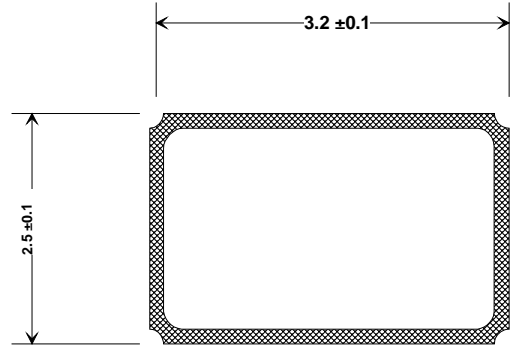
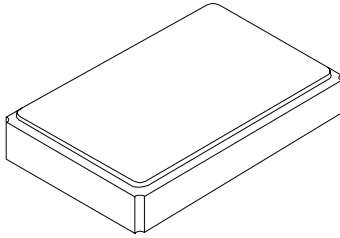
**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

**Notes:**

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

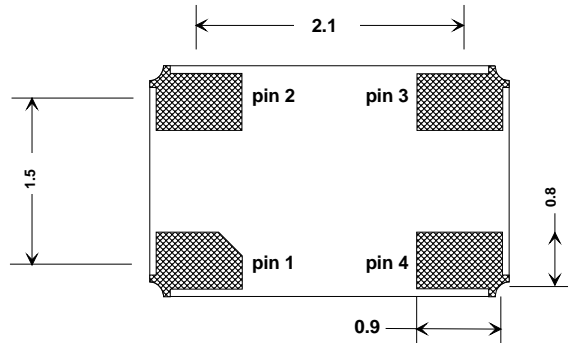
# 4-Terminal Surface-Mount Seam Weld Case

## 3.2 x 2.5 mm Nominal Footprint

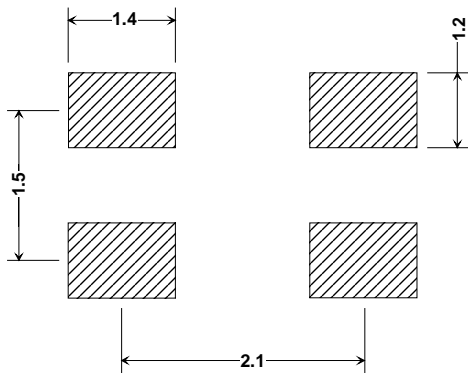


### Electrical Connections

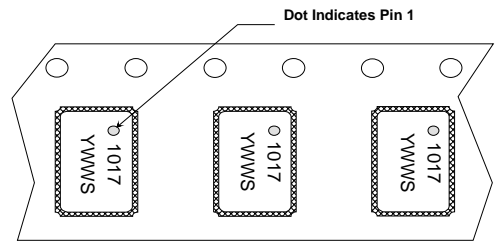
Pin	Connection
1	GND
2	IN/OUT
3	GND
4	IN/OUT



Package Dimensions (mm)

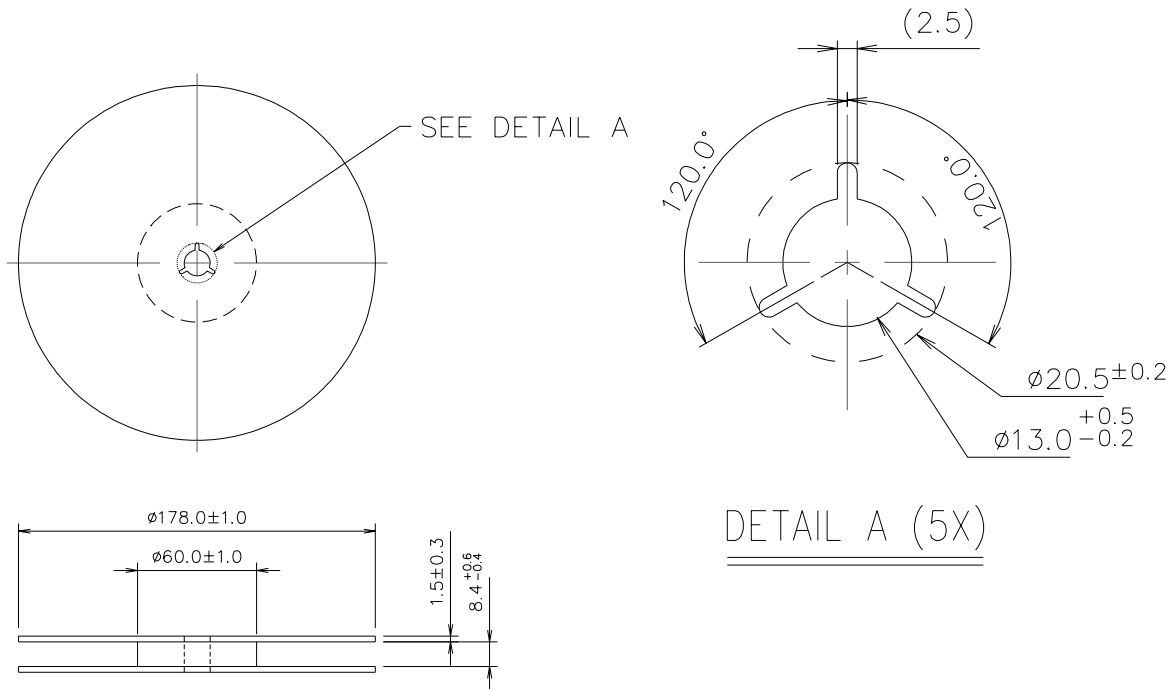


Footprint (mm)



Package Orientation in Carrier Tape

# Reel Dimensions



# Tape Dimensions

