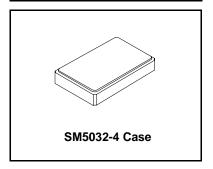


XTL1003

3 56000 MH:

13.56000 MHz Crystal Unit



• Surface Mount Seam-Weld Package

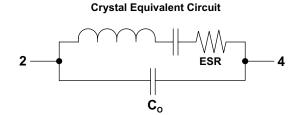
- Good Frequency Stability over Temperature
- Excellent Reliability
- Complies with Directive 2002/95/EC (RoHS)



The XTL1003 is a surface mount $5.0 \times 3.2 \text{ mm}$ 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				13.56000		MHz
Mode of Oscillation			Fundamental			
Operating Temperature Range			-20		+70	°C
Frequency Stability over Operating Temperature Range			±20 ppm (referred to the value at 25 °C)			
Frequency Make Tolerance	FL		±10 ppm @ 25 °C ±3 °C			
Equivalent Series Resistance	ESR				40	Ω
Nominal Drive Level				10		uW
Shunt Capacitance	Co				2.0	pF
Load Capacitance	C _L			20		pF
Motional Capacitance	C _M		4.2 fF ±20%			
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)	1003 <u>YWWS</u>					





CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

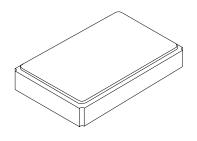
Notes:

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

SM5032-4 Case

4-Terminal Surface-Mount Seam Weld Case

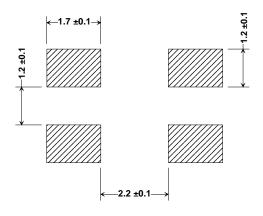
5.0 x 3.2 mm Nominal Footprint



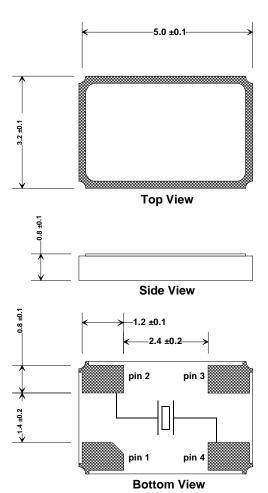
Electrical Connections

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

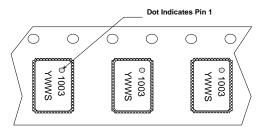
Note: Pin #1 & #3 are connected to metal cap on top



Footprint (mm)

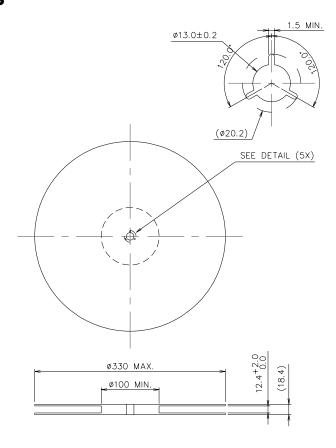


Package Dimensions (mm)

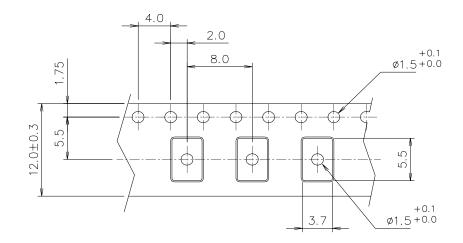


Package Orientation in Carrier Tape

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