Preliminary



XTL1025

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



The XTL1025 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.

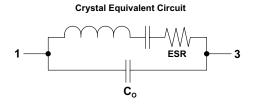
27.13480 MHz **Crystal Unit**



SM5032-4 Case

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Frequency				27.134380		MHz
Mode of Oscillation			Fundamental			
Storage Temperature Range, Crystal Only			-50		+125	°C
Storage Temperature Range, in Tape and Reel			-40		+85	°C
Operating Temperature Range			-20		+70	°C
Frequency Stability over Operating Temperature Range			±30 ppm (referenced to the value at 25°C)			
Frequency Make Tolerance	F _L		±30 ppm @ 25°C ±3°C			
Equivalent Series Resistance	ESR				40	Ω
Shunt Capacitance	Co				2.0	pF
Nominal Drive Level				10	100	μW
Load Capacitance	C _L			12.0		pF
Insulation Resistance at 100 VDC			500			МΩ
Weight			0.037 ±0.005			g
Stanard Shipping Quantity on 330 mm (13") Reel				3000		units
Lid Symbolization (in addition to Lot and/or Date Codes)		1025 <u>YWWS</u>				





CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

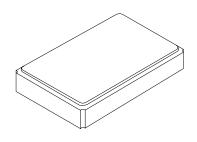
Notes:

- US and international patents may apply.
- The design, manufacturing process, and specifications of this device are subject to change without notice. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.

SM5032-4 Case

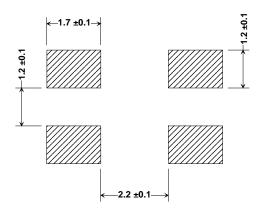
4-Terminal Surface-Mount Seam Weld Case

5.0 x 3.2 mm Nominal Footprint

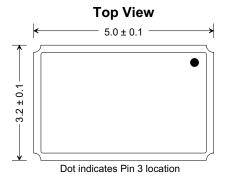


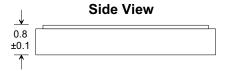
Electrical Connections

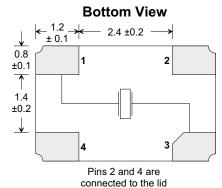
Pin	Connection		
1	I/O		
2	GND (lid)		
3	I/O		
4	GND (lid)		



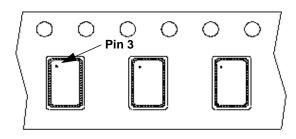
Footprint (mm)





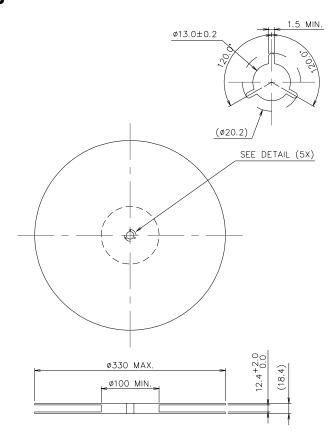


Dimensions are in mm

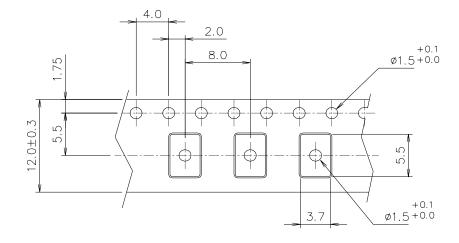


Package Orientation in Carrier Tape

Reel Dimensions



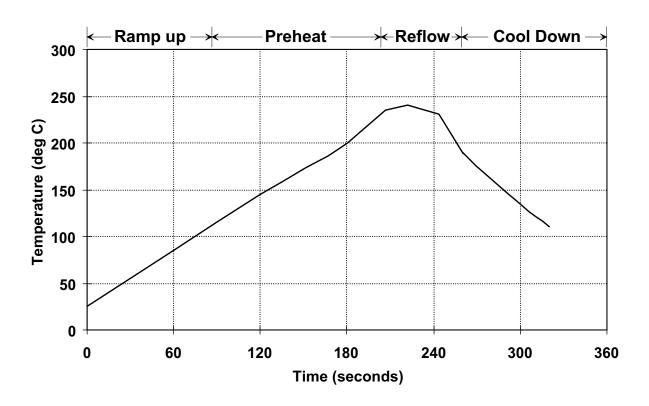
Tape Dimensions



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

Typical Reflow Profile



Notes:

- 1. Maximum peak temperature: 265 degrees C for 8 to 12 seconds
- 2. Typical reflow temperature: 217 ±5 degrees C for 90 to 100 seconds