Preliminary



Ulta-miniature Surface Mount Seam-weld Package

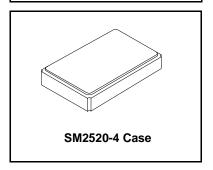
- Good Frequency Stability over Temperature
- Excellent Reliability
- Complies with Directive 2002/95/EC (RoHS)



The XTL1022 is a surface mount $2.5 \times 2.0 \times 0.6$ mm crystal unit for use in wireless telecommunications devices, especially where an ultra-miniature package is needed for mobility.

XTL1022

24.00000 MHz Crystal Unit

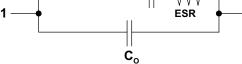


Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Frequency	F _O			24.00000		MHz
Load Capacitance	C _L			10		pF
Mode of Vibration			Fundamental			
Drive Level				10		μW
Frequency Make Tolerance	FL		±10 ppm @ 25 °C ±3 °C			ppm
Resistance	ESR				50	Ω
Static Shunt Capacitance	Co				3	pF
Insulation Resistance, 100 VDC			500			ΜΩ
Frequency Stability Over Operating Temperature Range			±10 ppm (referred to the value at 25 °C)			
Storage Temperature Range			-40		85	°C
Operating Temperature Range			-20		60	°C
Standard Shipping Quantity on 178 mm (7") Reel				3000		units
Lid Symbolization	3C // <u>YW</u>					

ESR

Crystal Equivalent Circuit





CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

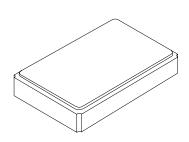
Notes:

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

SM2520-4 Case

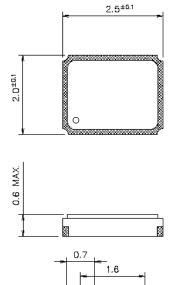
4-Terminal Surface-Mount Case

2.5 x 2.0 mm Nominal Footprint

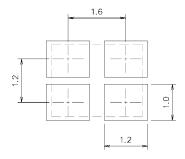


Electrical Connections

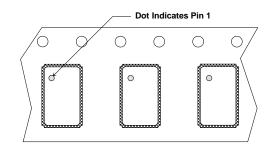
Pin	Connection		
1	IN/OUT		
2	GND		
3	IN/OUT		
4	GND		



Package Dimensions (mm)

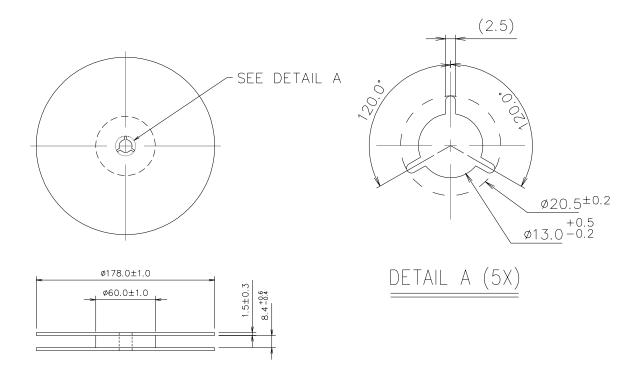


Land Pattern (mm)



Package Orientation in Carrier Tape

Reel Dimensions



Tape Dimensions

