



- XTL1008
- 26.0000 MHz **Crystal Unit**



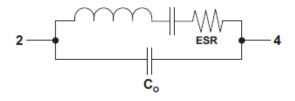
- High Reliability Quartz Crystal
- Excellent Frequency Stability over Temperature
- Miniature 3.2 x 2.5 mm SMD Package
- Complies with Directive 2002/95/EC (RoHS)
- Moisture Sensitivity Level: 1

The XTL1008 is a 26.0000 MHz surface mount 3.2 x 2.5 mm crystal unit for use in wireless telecommunications devices, especially where a miniature package is needed for mobility.

Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units	
Nominal Frequency	f _O			26.0000		MHz	
Mode of Oscillation			Fundamental				
Storage Temperature Range in Tape and Reel			-40		+85	°C	
Operating Temperature Range			-40		+85	°C	
Frequency Make Tolerance	f _L		±10 ppm @ 25 °C ±3 °C				
Frequency Stability, -20 to +70 °C			±10 ppm (referred to value at 25 °C)				
Frequency Stability, -40 to +85 °C			±30 ppm (referred to value at 25 °C)				
Equivalent Series Resistance	ESR				50	Ω	
Nominal Drive Level				10		μW	
Shunt Capacitance	Co				2.0	pF	
Load Capacitance	C _L			16		pF	
Insulation Resistance, 100 VDC			500			MΩ	
Stanard Shipping Quantity on 178 mm (7") Reel				3000		units	
Lid Symbolization (Y = year, WW = week, S = shift)		1008, <u>YWWS</u>					

Crystal Equivalent Circuit



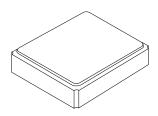
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

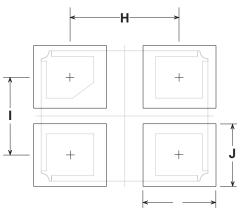
- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.

SM3225-4 Case

4 Terminal Surface Mount Seam Weld Case

3.2 x 2.5 mm Nominal Footprint





Typical PCB Land Footprint (Top View)

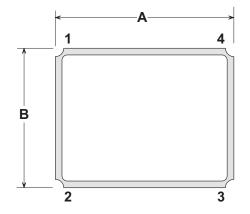
Electrical Connections

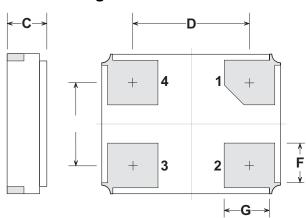
Connection	Terminals		
Ground	1		
Input / Output	2		
Ground	3		
Input / Output	4		

Case and PCB Land Dimensions

Dimensions	Millimeters			Inches			
	Min	Nom	Max	Min	Nom	Max	
А	3.10	3.20	3.30	0.122	0.126	0.130	
В	2.40	2.50	2.60	0.094	0.098	0.102	
С			0.70			0.028	
D		2.10			0.083		
E		1.50			0.059		
F		0.80			0.031		
G		0.90			0.035		
Н		2.10			0.083		
I		1.50			0.059		
J		1.20			0.047		
K		1.40			0.055		

Case Outline Drawing

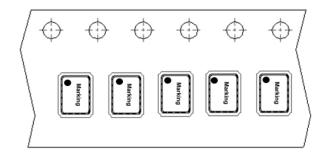




Marking:

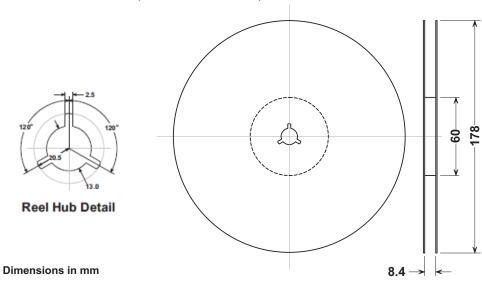
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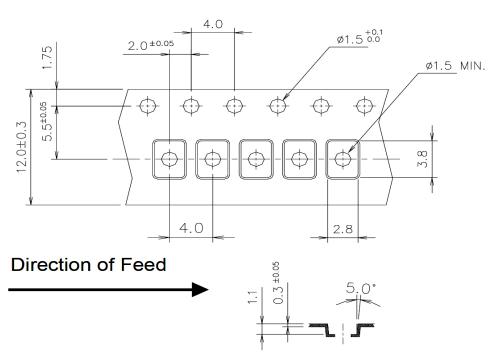


Reel Dimensions

Tape and Reel Standard per ANSI/EIA-481



Tape Dimensions



Recommended Reflow Profile

- 1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (10 seconds).
- 4. Time: 5 times maximum.

