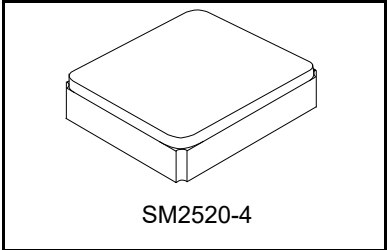


XO3004

**26 MHz
Crystal
Oscillator**



- **Crystal Oscillator**
- **Miniature Surface-mount Seam Weld Package**
- **Good Frequency Stability over Temperature**
- **Excellent Reliability**
- **Complies with Directive 2002/95/EC (RoHS)**
- **Tape and Reel Standard per ANSI/EIA-481**
- **Moisture Sensitivity Level: 1**

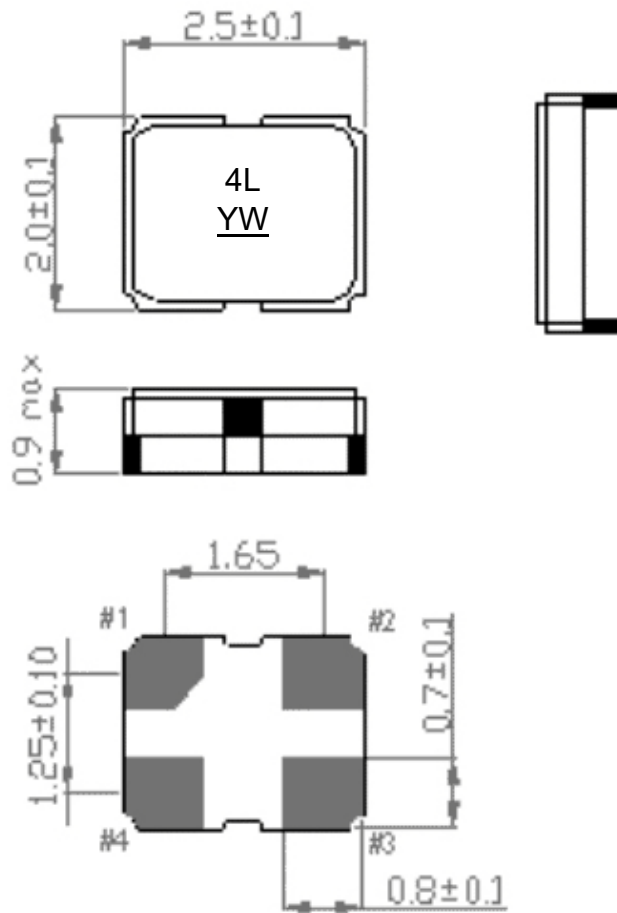
Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Nominal Frequency	Fo			26.000000		MHz
Storage Temperature Range			-55		+125	°C
Operating Temperature Range			-20		+70	°C
Power Supply Voltage	Vcc		1.62	1.80	1.98	V
Load			15 pF			
"0" Level					0.18	V
"1" Level			1.62			V
Power Supply Current	Icc				2	mA
Frequency Tolerance			±7 ppm at 25 ±3 °C			
Frequency Accuracy					±20	ppm
Duty Cycle			40% to 60%			
Enable Voltage High			1.26			V
Disable Voltage Low					0.54	V
Start-up Time					5	ms
Phase Noise at 1 kHz Offset					-137	dBc/Hz
Phase Noise at 100 kHz Offset					-149	dBc/Hz
Output Disable Delay Time					150	µs
Output Enable Delay Time					150	µs
Rise Time, 10% to 90% of final RF level in Vp-p					5	ns
Fall Time, 90% to 10% of final RF level in Vp-p					5	ns
Aging					±1	ppm/yr
Pin 1 Enable/Disable Function			High or Open Enables Output on Pin3 Low Disables Output on Pin 3			
Standard Shipping Quantity on 180 mm (7") Reel				1000		units
Lid Symbolization, Y = year, W = week			4L, <u>YW</u>			

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

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.

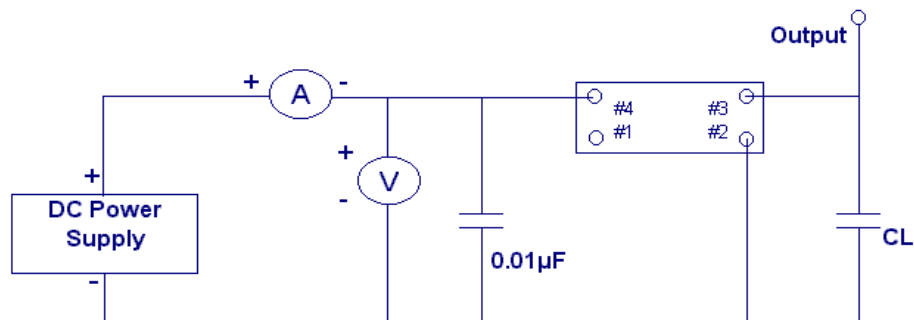
4-Terminal Surface Mount Seam-Weld Case



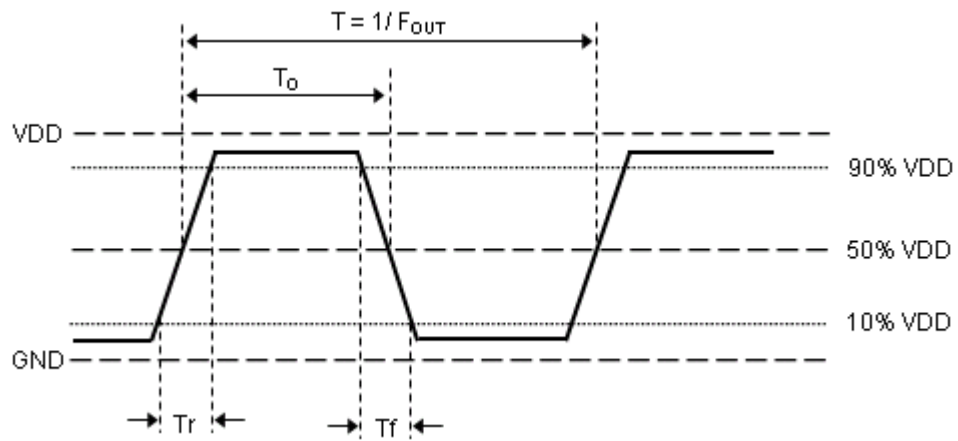
Electrical Connections

Connection	Terminals
Enable/Disable	1
Ground	2
Output	3
Vcc	4

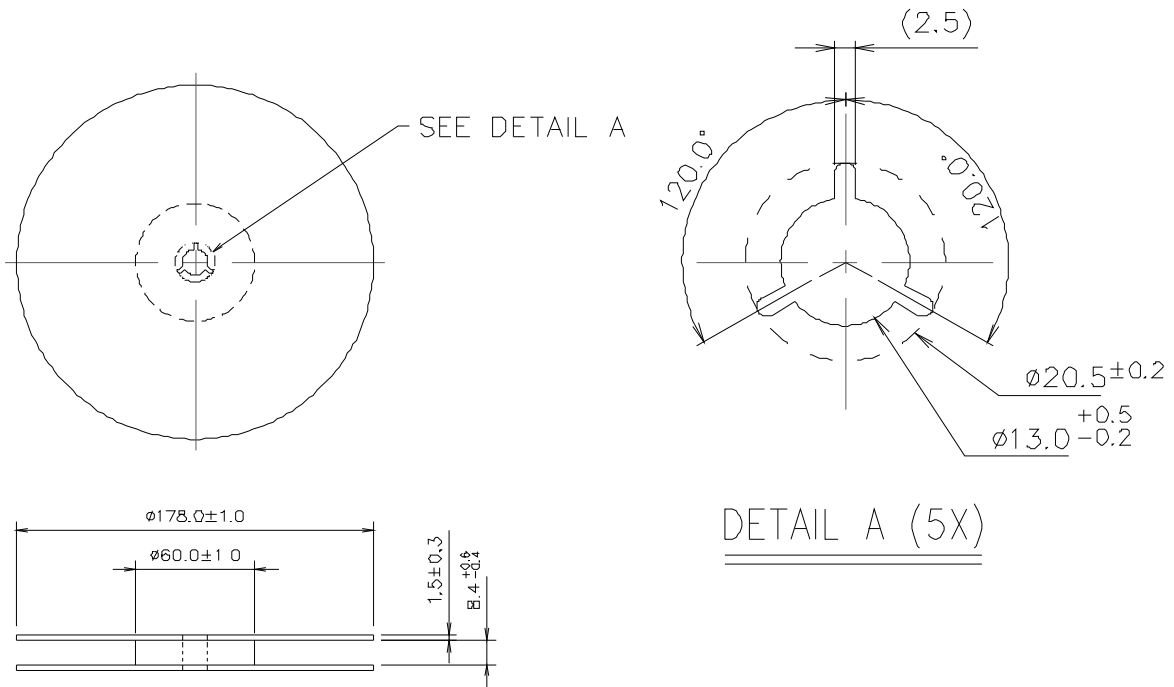
Test Circuit



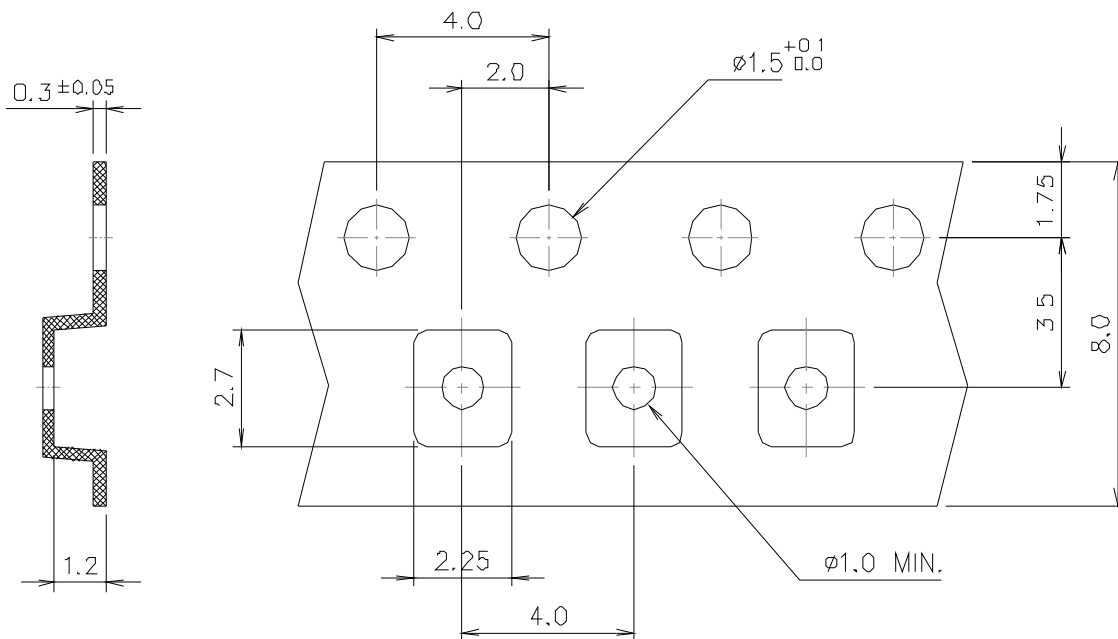
Output Waveform



Reel Dimensions in mm (7" nominal diameter)



Tape Dimensions in mm



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.
3. 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.

