SUNTSU

Ceramic SMT 6 Pad Clipped Sinewave TCXO

STX488

2.5mm x 2.0mm

Features

- ±0.5ppm (Frequency Stability)
- Clipped Sinewave
- TCXO
- Tape and Reel
- Analog Compensation

Applications

- GPS Application

Part Numbering Guide

STX488-26.000MHz

RoHS COMPLIANT

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz		26.000		
Frequency Tolerance at +25°C	ppm	-2.0		2.0	After 2 times reflow
Freq. Stability vs. Op Temp.	ppm	-0.5		0.5	Reference to frequency at 25°C
Freq. Stability vs. Supply Voltage	ppm	-0.1		0.1	V_{DD}±5% change.
Freq. Stability vs. Load	ppm	-0.1		0.1	±10% change
Freq. Stability vs. Aging 1 year	ppm	-0.7		0.7	
Freq. Stability vs. Aging 2 years	ppm	-1.4		1.4	
Freq. Stability vs. Aging 5 years	ppm	-2.5		2.5	
Freq. Stability vs. Aging 10 years	ppm	-5.0		5.0	
Operating Temperature	°C	-30		85	
Storage Temperature	°C	-40		85	
Operating Voltage (V_{DD})	V	1.8	2.8	3.0	±5%
Current (I_{DD})	mA			1.5	
Output Load (Clipped Sinewave)	kΩ//pF		10//10		±10%
Output Logic Levels	V_{P-P}	0.8			
Symmetry (Duty Cycle)	%	45	50	55	
Harmonics	dBc			-8	
Start-Up Time	ms			2	
Phase Noise (Typical) 1Hz Offset	dBc/Hz			-50	
Phase Noise (Typical) 5Hz Offset	dBc/Hz			-73	
Phase Noise (Typical) 10Hz Offset	dBc/Hz			-85	
Phase Noise (Typical) 100Hz Offset	dBc/Hz			-110	
Phase Noise (Typical) 1KHz Offset	dBc/Hz			-134	
Phase Noise (Typical) 10KHz Offset	dBc/Hz			-144	
Phase Noise (Typical) 100KHz Offset	dBc/Hz			-152	

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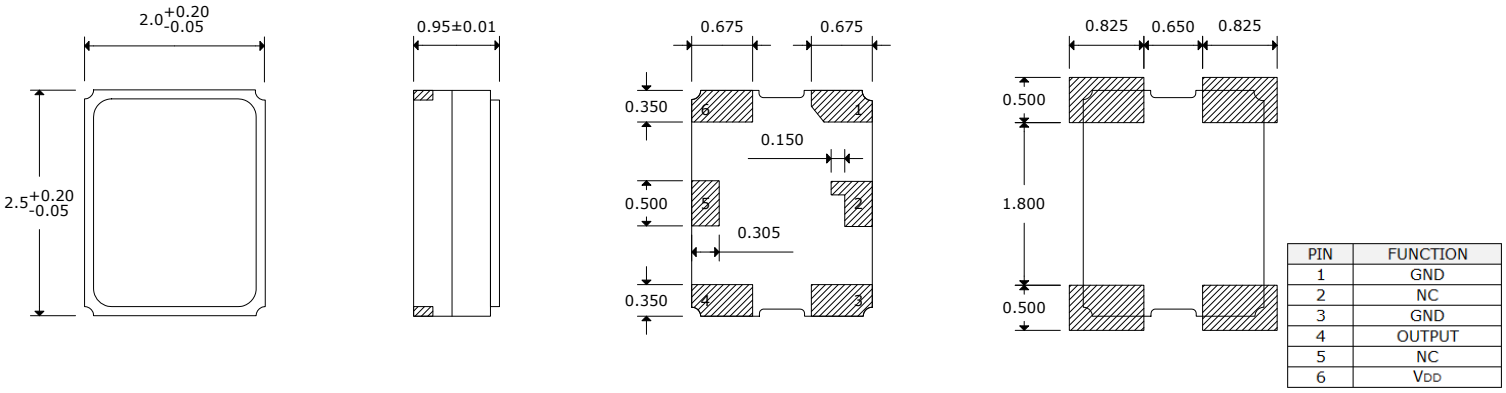
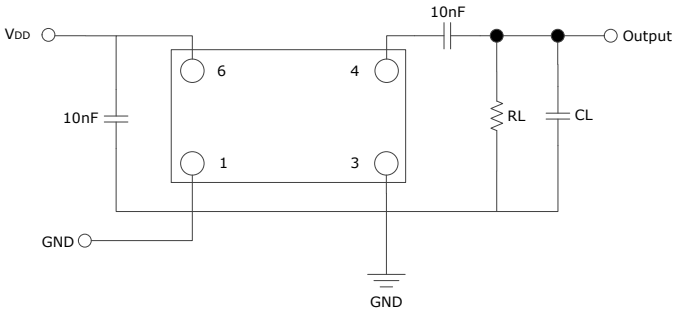
Outline Drawing

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.

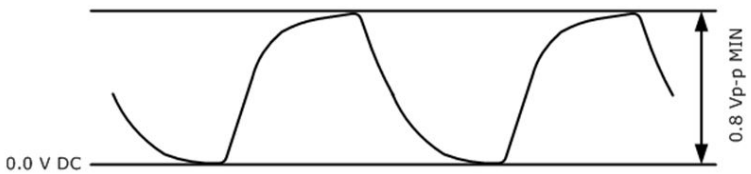


PIN	FUNCTION
1	GND
2	NC
3	GND
4	OUTPUT
5	NC
6	VDD

Test Circuit (Clipped Sinewave)



Waveform (Clipped Sinewave)



Tape And Reel Dimensions

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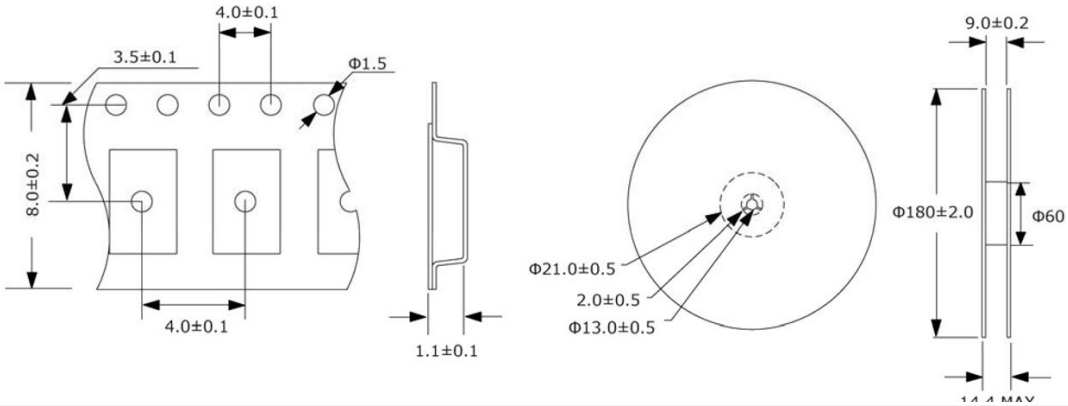
3,000pcs/Reel



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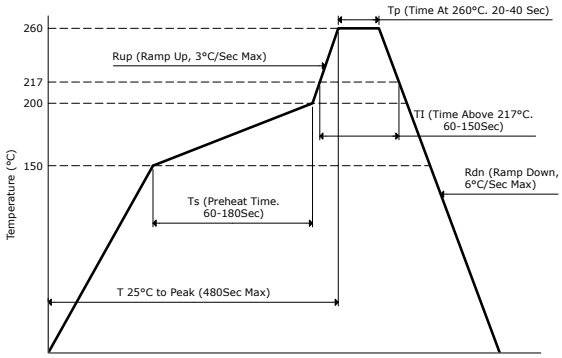
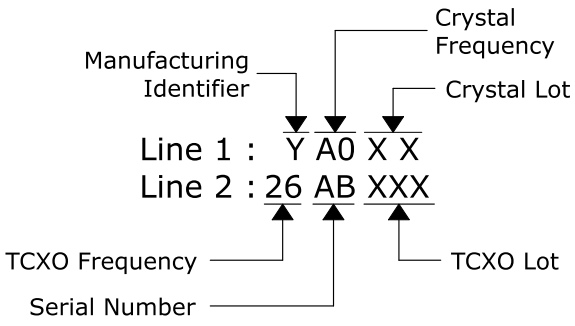
Reflow Profile & Part Marking





Environmental Specifications		Mechanical Specifications	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	MIL-STD-202, Method 213, Condition B
Fine Leak Test	MIL-STD-883, Method 1014, Condition A	Vibration	MIL-STD-883, Method 2007, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C	Moisture Resistance	MIL-STD-883, Method 1004
Solderability	MIL-STD-883, Method 2003	Resistance to Solvents	MIL-STD-202, Method 215
Moisture Sensitivity	J-STD-020, MSL 1	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K

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