SUNTSU

Ceramic Stratum 3 SMD 8 Pad HCMOS TCXO

STX479

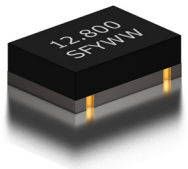
7.0mm x 5.0mm

Features

- Stratum 3
- ±0.14ppm Stabilty
- 12.8MHz
- Tape & Reel
- MSL : Level 3

Applications

- Si5348/83/84/88/89 Network Synchronizer Clocks
- Base Stations
- Wireless Applications
- Precision GPS



Part Numbering Guide

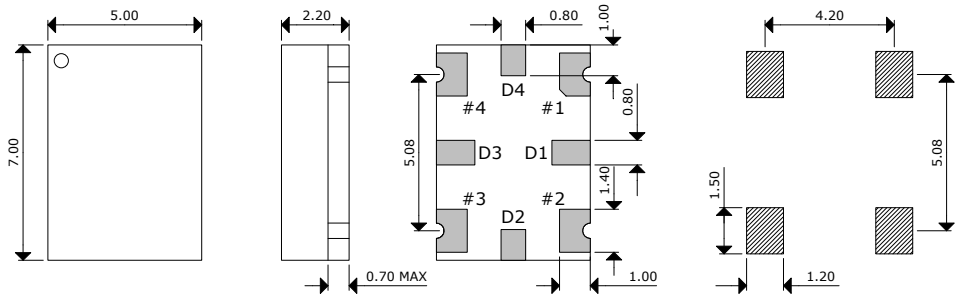
RoHS COMPLIANT

STX479 - 12.800M

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency	MHz		12.800		
Frequency Tolerance at +25°C	ppm	-0.5		+0.5	
Freq. Stability vs, Op Temp.	ppm	-0.14		+0.14	Ref. Freq. @T_A = 25°C, V_{CC}= 3.3V, O_{load}= 15pF
Freq. Stability vs, Supply Voltage	ppm	-0.05		+0.05	V_{DD} ±5% Change
Freq. Stability vs, Load	ppm	-0.05		+0.05	±5% Change
Freq. Stability vs, Aging/Day	ppm	-0.02		+0.02	
Freq. Stability vs, Aging/Year	ppm	-1.0		+1.0	
Operating Temperature	°C	-40		+85	
Storage Temperature	°C	-55		+105	
Supply Voltage (V_{DD})	V	3.13	3.3	3.47	
Current (I_{DD})	mA			10	
Output Load (HCMOS)	pF		15		
Output Logic HIGH Level (V_{OH})	V	2.4			
Output Logic LOW Level (V_{OL})	V			0.4	
Rise (T_R) And Fall (T_F) Time	ns			10	
Symmetry (Duty Cycle)	%	45	50	55	
Start-Up Time	ms			2	
Phase Noise 10Hz Offset	dBc/Hz		-85	-80	
Phase Noise 100Hz Offset	dBc/Hz		-115	-110	
Phase Noise 1KHz Offset	dBc/Hz		-140	-135	
Phase Noise 10KHz Offset	dBc/Hz		-145	-140	
Phase Noise 100KHz Offset	dBc/Hz		-148	-143	
Phase Noise 1MHz Offset	dBc/Hz		-150	-145	

Outline Drawing & Land Pattern

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



PIN	FUNCTION
1	NC
2	GND
3	OUTPUT
4	V_{DD}
D1, D2, D3, & D4 = NC	

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Specifications are subject to change without notice.

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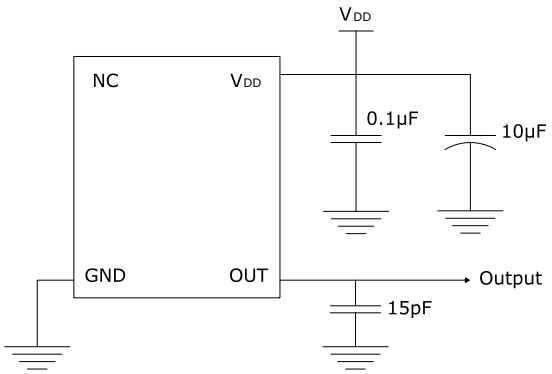
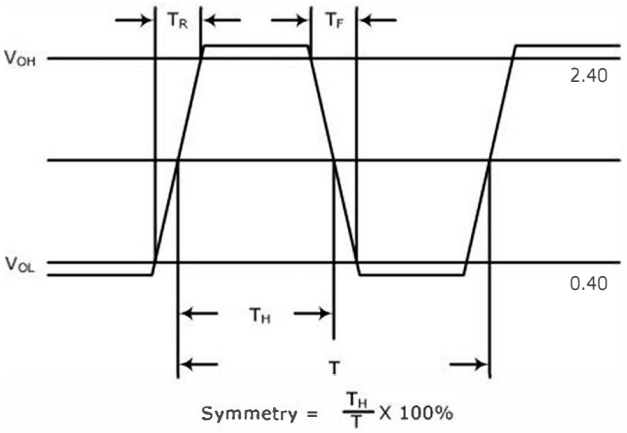
7.0mm x 5.0mm

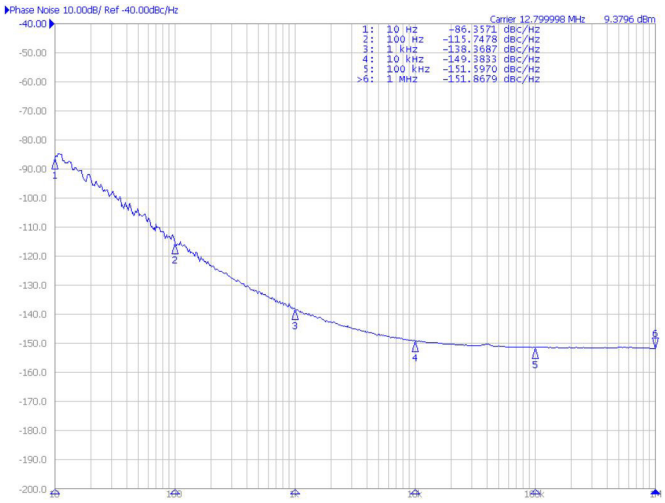
Test Circuit (HCMOS)

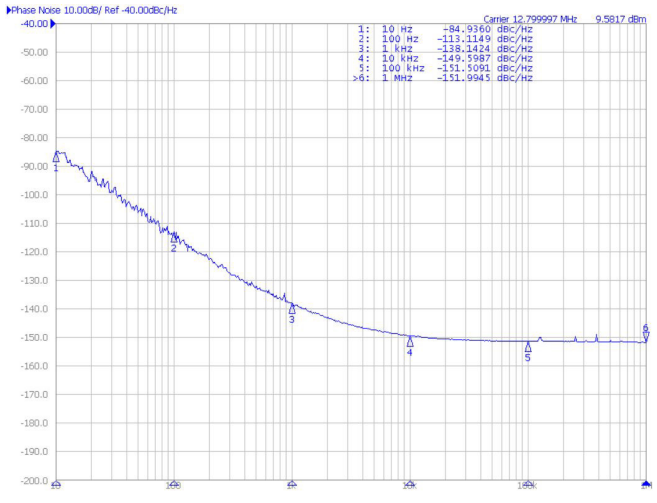


Waveform (HCMOS)

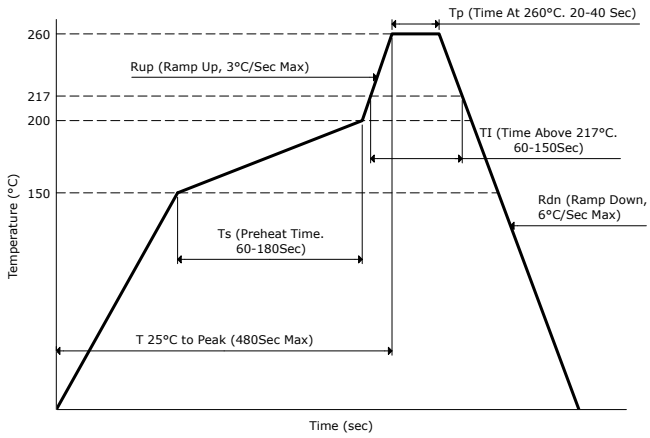


Typical Phase Noise Performance (Measured By Agilent E5052B)

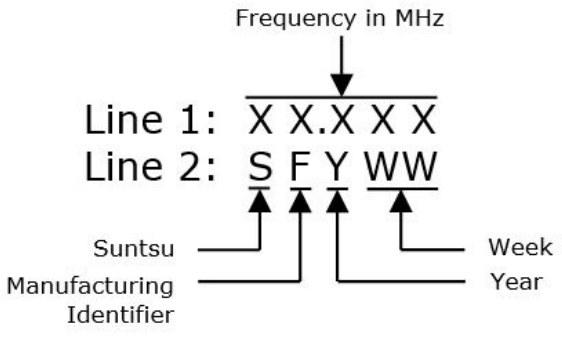




Reflow Profile



Part Marking



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Tape And Reel Dimensions

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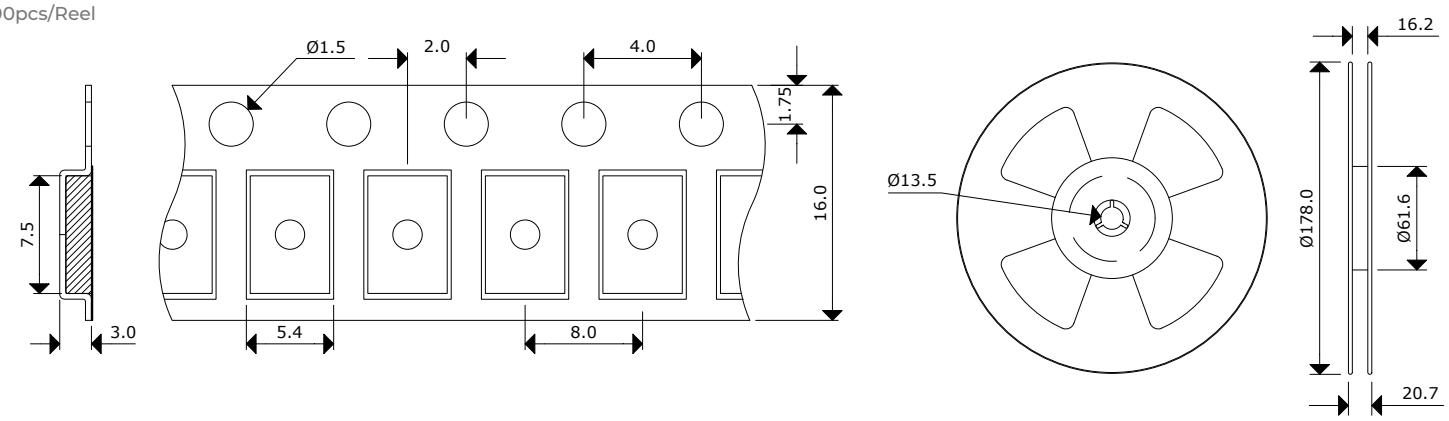
600pcs/Reel



Environmental & Mechanical Specifications

Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	100g;6ms; ½sine wave (directions X,Y,Z) IEC68-2-27 Test Ea/Severity 50A
Lead Integrity	MIL-STD-883, Method 2004	Resistance to Soldering	MIL-STD-202, Method 210, Condition A
Solderability	MIL-STD-883, Method 2003	Resistance to Solvents	MIL-STD-202, Method 215
Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz-2000Hz, one cycle per 30 min, test 2hrs. (3 times for each 3 directions X ,Y , Z), IEC 68-2-06 Test Fc.		

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