

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - Stratum 3 (Overall ± 4.6ppm) - Clipped Sinewave - (VC)TCXO - RoHS Compliant - Tape and Reel 	<ul style="list-style-type: none"> - Base Stations - Stratum 3 - Small Cell



PART NUMBERING GUIDE

SUNTSU STRATUM 3 TCXO → **SST 75 K 33 S 48 V F - 16.384M** ← **FREQUENCY (MHz)**

7.0mm x 5.0mm

CLIPPED SINEWAVE

SUPPLY VOLTAGE
 33: 3.3V \pm 5%
 50: 5.0V \pm 5%

FREQUENCY STABILITY
 F: ± 0.50 ppm
 S: ± 0.37 ppm
 T: ± 0.28 ppm
 *U: ± 0.14 ppm

PULLABILITY
 BLANK: TCXO
 F: ± 8.0 ppm
 G: ± 5.0 ppm

TCXO/ VCTCXO
 BLANK: TCXO
 V: VCTCXO

OPERATING TEMPERATURE RANGE
 07: 0°C to +70°C
 16: -10°C to +60°C
 27: -20°C to +70°C
 48: -40°C to +85°C

Cage Code: 4GUT4
 To customize your parameters contact a Suntsu representative.
 * Option U is available only for -20°C to +70°C.

ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range	MHz	5		26	
Frequency Stability (Includes Initial Tolerance at 25°C, Frequency Stability over Operating Temperature, Output Load Change, Supply Voltage Change, and 20 Years Aging at 25°C.)	ppm	-4.6		4.6	
Frequency Stability vs. Operating Temperature		-0.28		0.28	See part numbering guide for options.
Holdover Stability		-0.37		0.37	
Operating Temperature	°C	-40		+85	See part numbering guide for options.
Storage Temperature		-55		+125	
Supply Voltage (V _{DD})					
	3.3V Option	3.135	3.3	3.465	
	5.0V Option	4.750	5.0	5.250	
Current (I _{DD})	mA			6	
Control Voltage (V _C , VCTCXO)					
	3.3V Option	0.5		2.5	
	5.0V Option	0.5		2.5	
Pullability (VCTCXO)	ppm	± 5.0		± 8.0	See part numbering guide for options.
Linearity (VCTCXO)	%			10	
Output Load (Clipped Sinewave)	k Ω //pF			10//10	
Output Logic Levels	V _{P-P}	0.8			
Symmetry (Duty Cycle)	%	40	50	60	
Tri-State Input Voltage					
	Enable	0.7*V _{DD}			
	Disable			0.3*V _{DD}	
Start-Up Time	ms			2	
VC Input Impedance (VCTCXO)	k Ω	100			
Phase Noise (Typical)					
	100Hz Offset		-120		
	1kHz Offset		-140		
	10kHz Offset		-148		

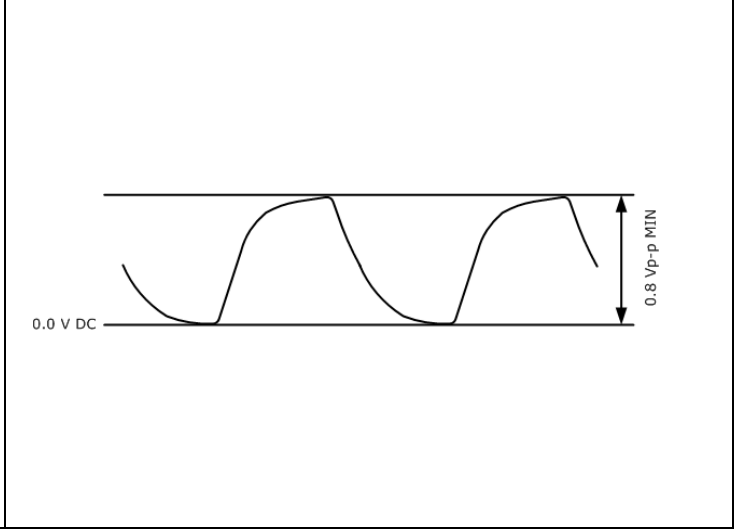
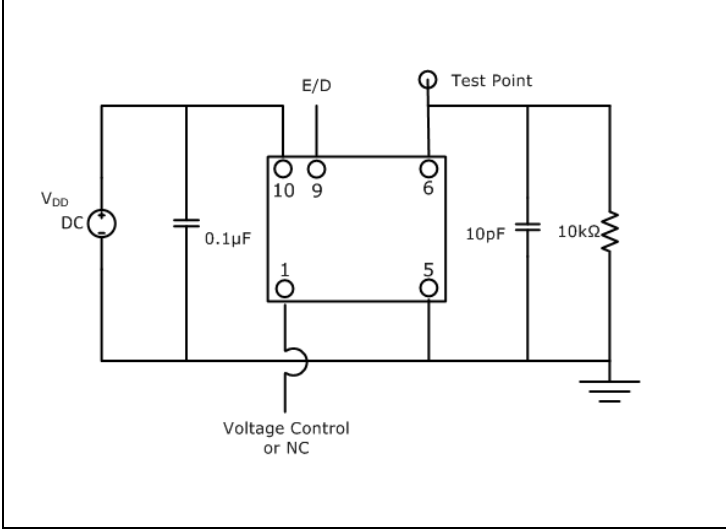
OUTLINE DRAWING

RECOMMENDED LAND PATTERN

PIN	FUNCTION
1	NC
4	GND
5	OUTPUT
8	TRI-STATE
9	V _{DD}
10	V _C (VCTCXO) or GND (TCXO)

TEST CIRCUIT (CLIPPED SINE WAVE)

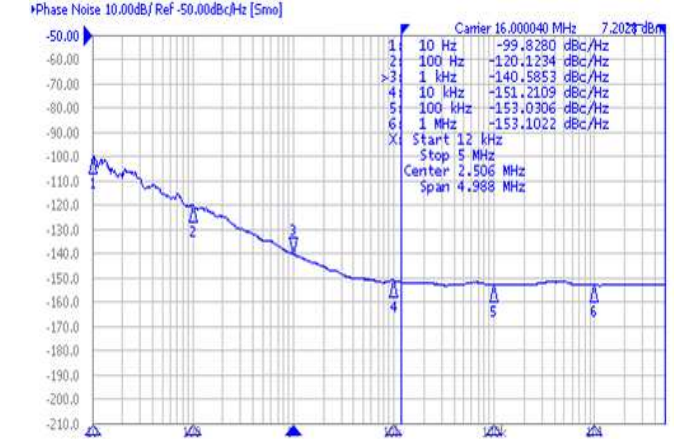
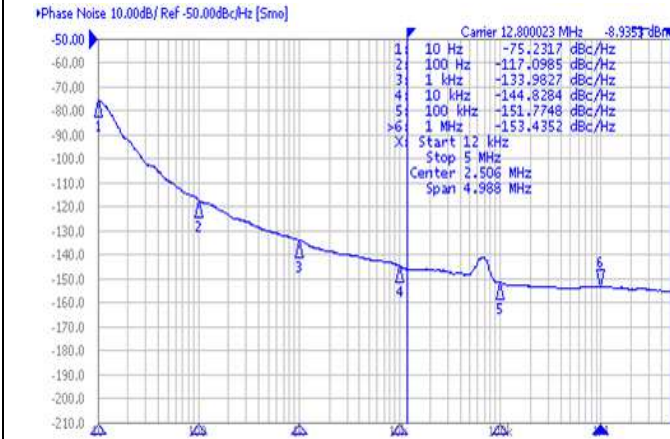
WAVEFORM (CLIPPED SINE WAVE)



TYPICAL PHASE NOISE PERFORMANCE (MEASURED BY AGILENT E5052A)

Frequency 12.800MHz

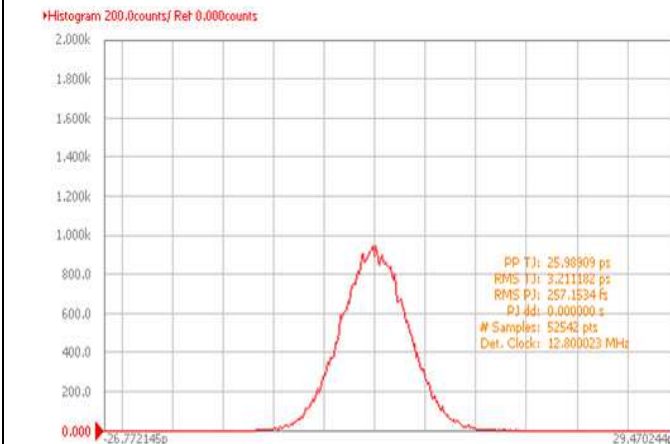
Frequency 16.000MHz



TYPICAL JITTER PERFORMANCE (MEASURED BY AGILENT E5052A)

Frequency 12.800MHz

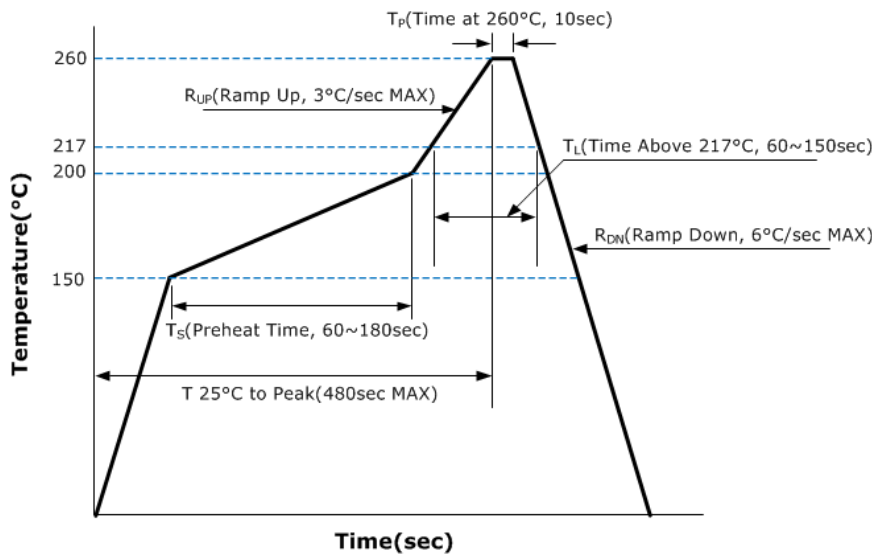
Frequency 16.000MHz



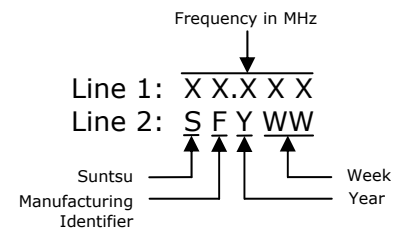
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

Temperature Cycling	MIL-STD-883, Method 1010, Condition B
Fine Leak Test	MIL-STD-883, Method 1014, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Vibration	MIL-STD-883, Method 2007, Condition A
Moisture Resistance	MIL-STD-883, Method 1004
Moisture Sensitivity	J-STD-020, MSL 1
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K
Resistance to Solvents	MIL-STD-202, Method 215
Solderability	MIL-STD-883, Method 2003

REFLOW PROFILE

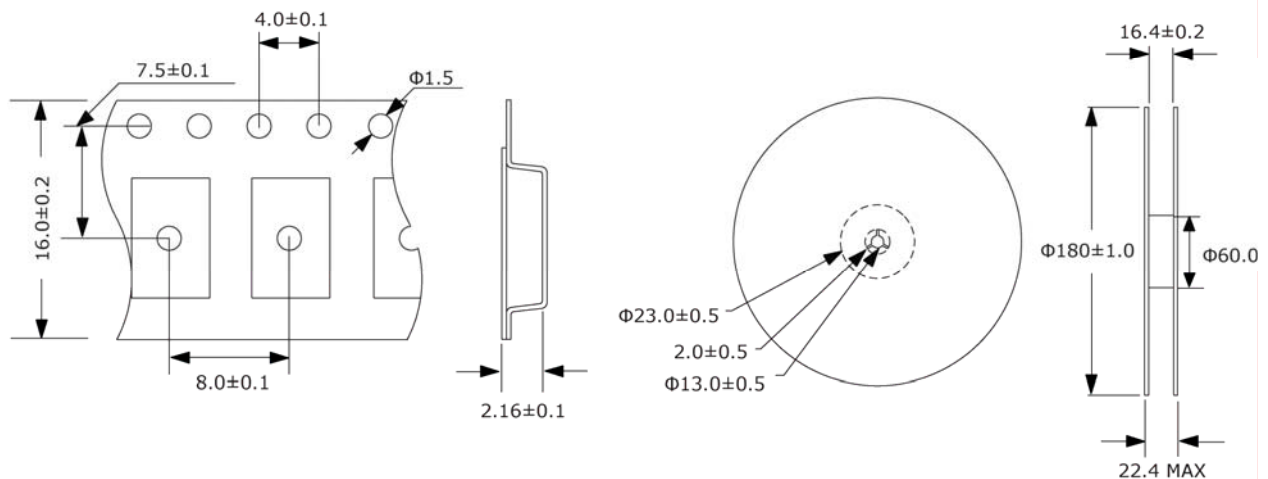


MARKING



TAPE AND REEL DIMENSIONS

1,000pcs/reel



NOTE: Dimensions in millimeters (mm); drawing is not to scale.