

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - ± 0.5ppm (Frequency Stability) Available - Clipped Sinewave - (VC)TCXO - RoHS Compliant - Tape and Reel 	<ul style="list-style-type: none"> - GPS - Mobile Communication Equipment - Cellular and Cordless Phones - IP Networking



PART NUMBERING GUIDE

SUNTSU TCXO → **STC 22 K 30 R 48 V E - 26.000M** ← **FREQUENCY (MHz)**

2.5mm x 2.0mm

CLIPPED SINEWAVE

SUPPLY VOLTAGE
 18: 1.8V $\pm 5\%$
 25: 2.5V $\pm 5\%$
 27: 2.7V $\pm 5\%$
 28: 2.8V $\pm 5\%$
 30: 3.0V $\pm 5\%$

FREQUENCY STABILITY
 N: ± 5.0 ppm
 O: ± 2.5 ppm
 P: ± 2.0 ppm
 Q: ± 1.5 ppm
 R: ± 1.0 ppm
 F: ± 0.5 ppm

PULLABILITY
 BLANK: TCXO
 E: ± 12.0 ppm
 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
 17: -10°C to +70°C
 27: -20°C to +70°C
 37: -30°C to +75°C
 38: -30°C to +85°C
 48: -40°C to +85°C

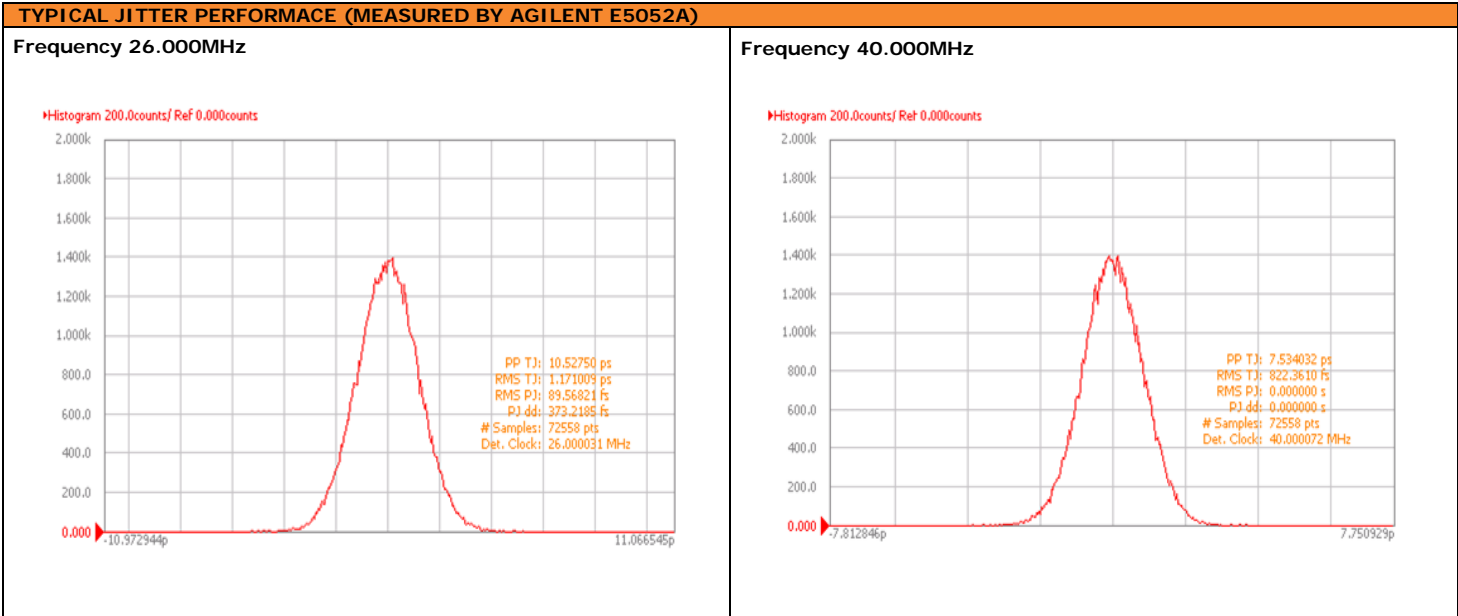
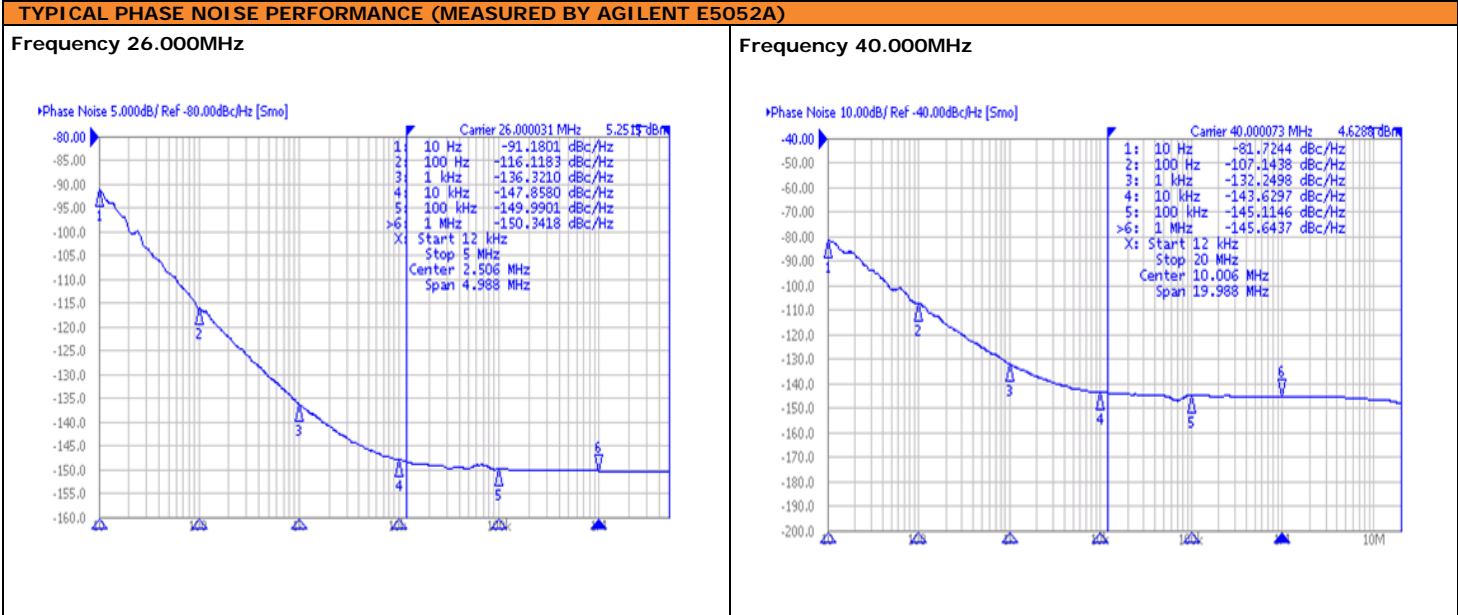
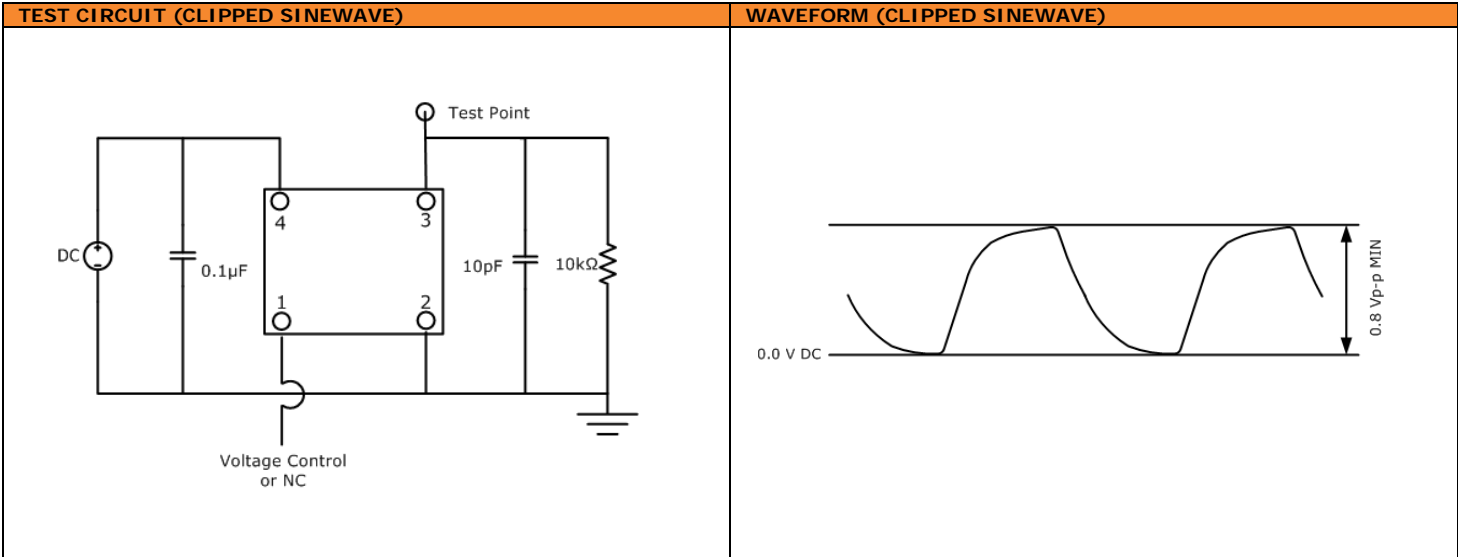
Cage Code: 4GUT4
 To customize your parameters contact a Suntsu representative.

ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range	MHz	13		52	
Frequency Tolerance at +25°C		-2.0		+2.0	1 hour after reflow.
Frequency Stability vs. Operating Temperature (Ref. 25°C)		-1.0		1.0	See part numbering guide for options.
vs. Supply Voltage	ppm	-0.2		0.2	V _{DD} $\pm 5\%$ change.
vs. Load		-0.2		0.2	$\pm 10\%$ change.
vs. Aging		-1.0		1.0	1 year.
Operating Temperature	°C	-40		+85	See part numbering guide for options.
Storage Temperature		-55		+125	
Supply Voltage (V _{DD})	V	2.985	3.0	3.015	See part numbering guide for options.
Current (I _{DD})	mA			2	
Control Voltage (V _C , VCTCXO)	V	0		V _{DD}	Center Voltage: V _{DD} *50%.
Pullability (VCTCXO)	ppm	± 5.0		± 12.0	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	
Start-Up Time	ms			2	
VC Input Impedance (VCTCXO)	k Ω	100			
Phase Noise (Typical)	10Hz Offset			-85	
	100Hz Offset			-115	
	1kHz Offset			-135	
	10kHz Offset			-145	
	100kHz Offset			-150	

OUTLINE DRAWING

NOTE: Dimensions in millimeters (mm).

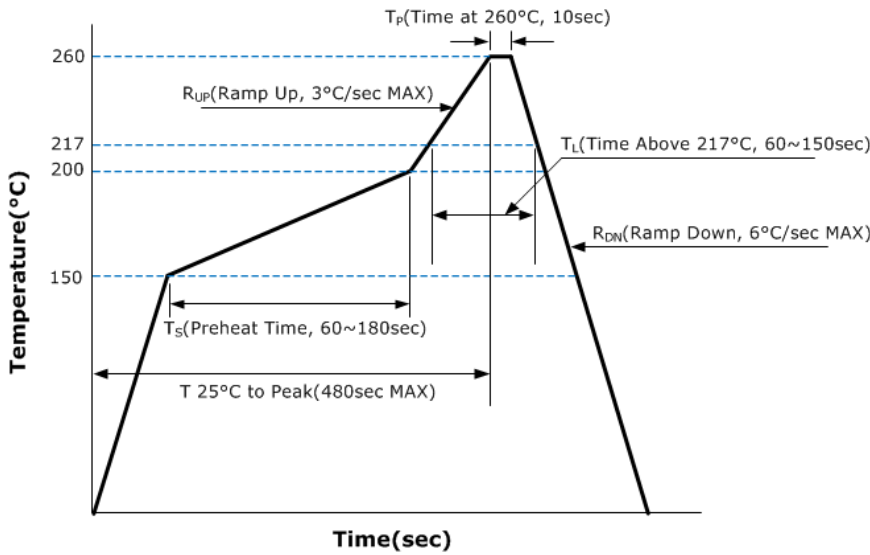
PIN	FUNCTION
1	V _C (VCTCXO) or NC (TCXO)
2	GND
3	OUTPUT
4	V _{DD}



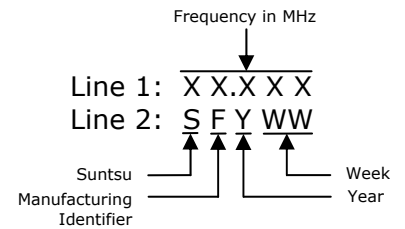
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

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

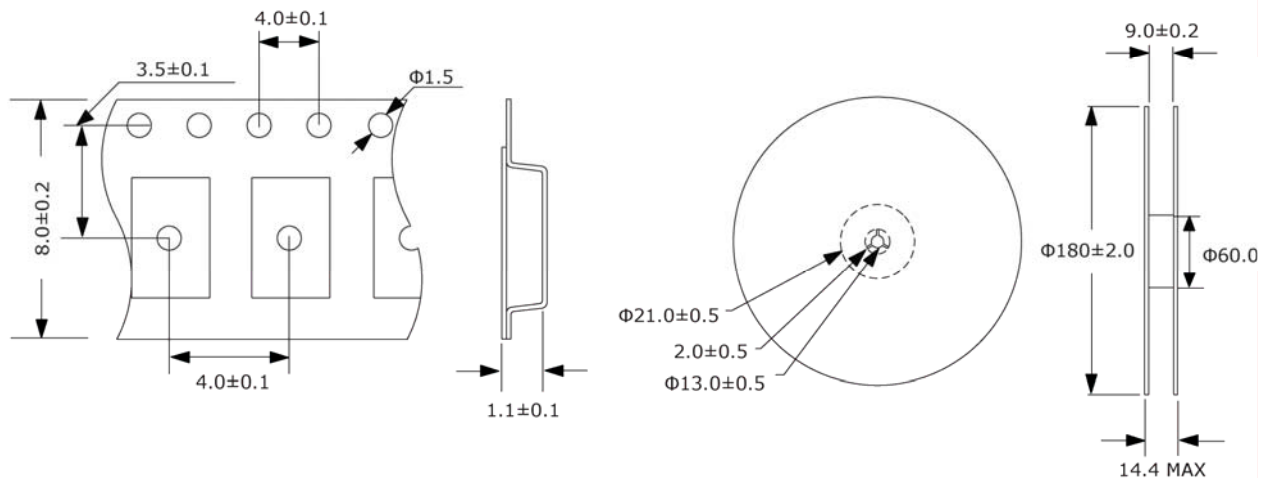


MARKING



TAPE AND REEL DIMENSIONS

3,000pcs/reel



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