



FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - ±20ppm (Frequency Stability) Available - Miniature Package - CMOS - RoHS Compliant - Fundamental - Tape and Reel 	<ul style="list-style-type: none"> - Digital TV - DVD, STB - PCMCIA, XDSL - Broadband Access - Base Stations

PART NUMBERING GUIDE

SUNTSU VCXO → **SVC 32 C 3 A 48 A - 27.000M** ← **FREQUENCY (MHz)**

3.2mm x 2.5mm
CMOS
SUPPLY VOLTAGE
 1: 1.8V±5%
 2: 2.5V±5%
 3: 3.3V±5%
FREQUENCY STABILITY
 A: ±50ppm
 B: ±30ppm
 C: ±25ppm
 *D: ±20ppm

PULLABILITY
 A: ±150ppm
 B: ±100ppm
 C: ±50ppm

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
 38: -30°C to +85°C
 48: -40°C to +85°C

Cage Code: 4GUT4
 To customize your parameters contact a Suntsu representative.
 * For frequency stability option D contact a Suntsu representative.

ELECTRICAL PARAMETERS		UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range		MHz	1		55	
Frequency Stability (Includes Initial Tolerance at 25°C, Frequency Stability over Operating Temperature, Output Load Change, Supply Voltage Change, and First Year Aging at 25°C.)		ppm	-20		+20	See part numbering guide for options.
Operating Temperature		°C	-40		+85	See part numbering guide for options.
Storage Temperature			-55		+125	
Supply Voltage (V _{DD})	1.8V Option	V	1.710	1.8	1.890	
	2.5V Option		2.375	2.5	2.625	
	3.3V Option		3.135	3.3	3.465	
Current (I _{DD})	1.8V Option	mA			10	
	2.5V Option				15	
	3.3V Option				25	
Control Voltage (V _C)	1.8V Option	V	0.15		1.65	
	2.5V Option		0.2		2.3	
	3.3V Option		0.3		3.0	
Pullability		ppm	±50	±100	±150	See part numbering guide for options.
Linearity		%			10	
Output Load (CMOS)		pF			15	
Output Logic Levels	Output Logic High (V _{OH})	V	0.9 * V _{DD}			
	Output Logic Low (V _{OL})				0.1 * V _{DD}	
Rise (T _R) and Fall (T _F) Time		ns			5	
Symmetry (Duty Cycle)		%	45	50	55	
Start-Up Time		ms			10	
Phase Jitter (12kHz ~ 20MHz)		ps			1	

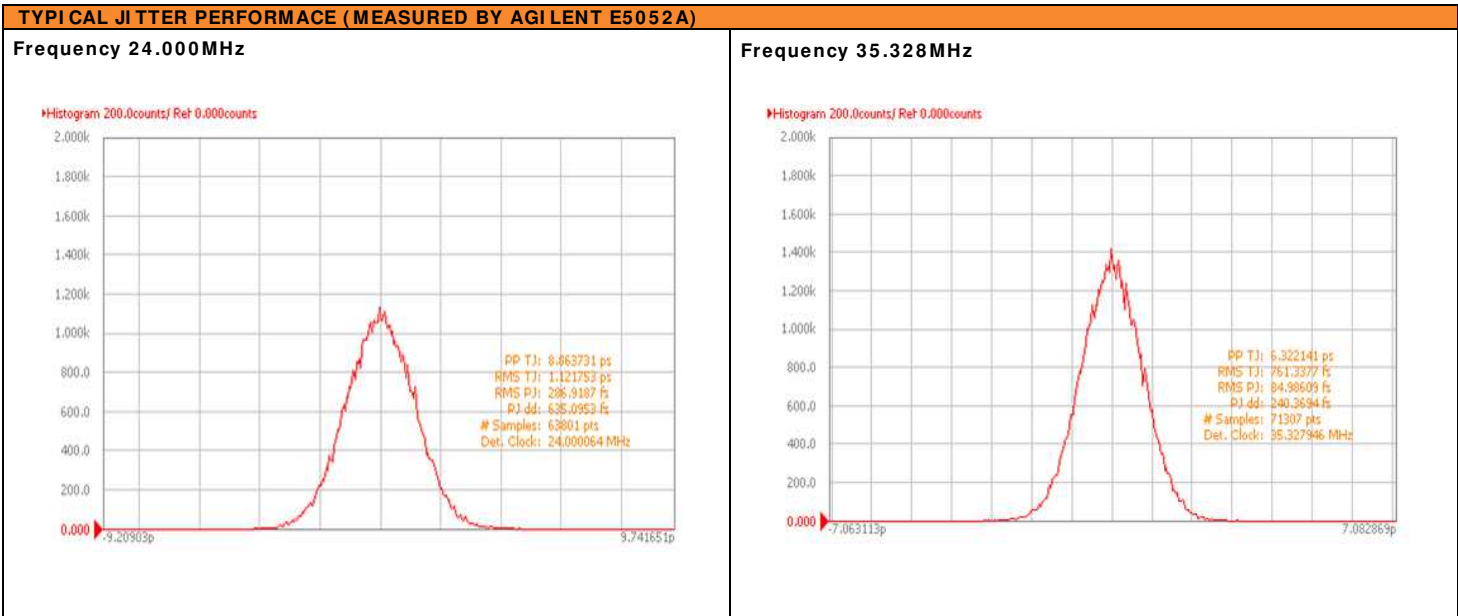
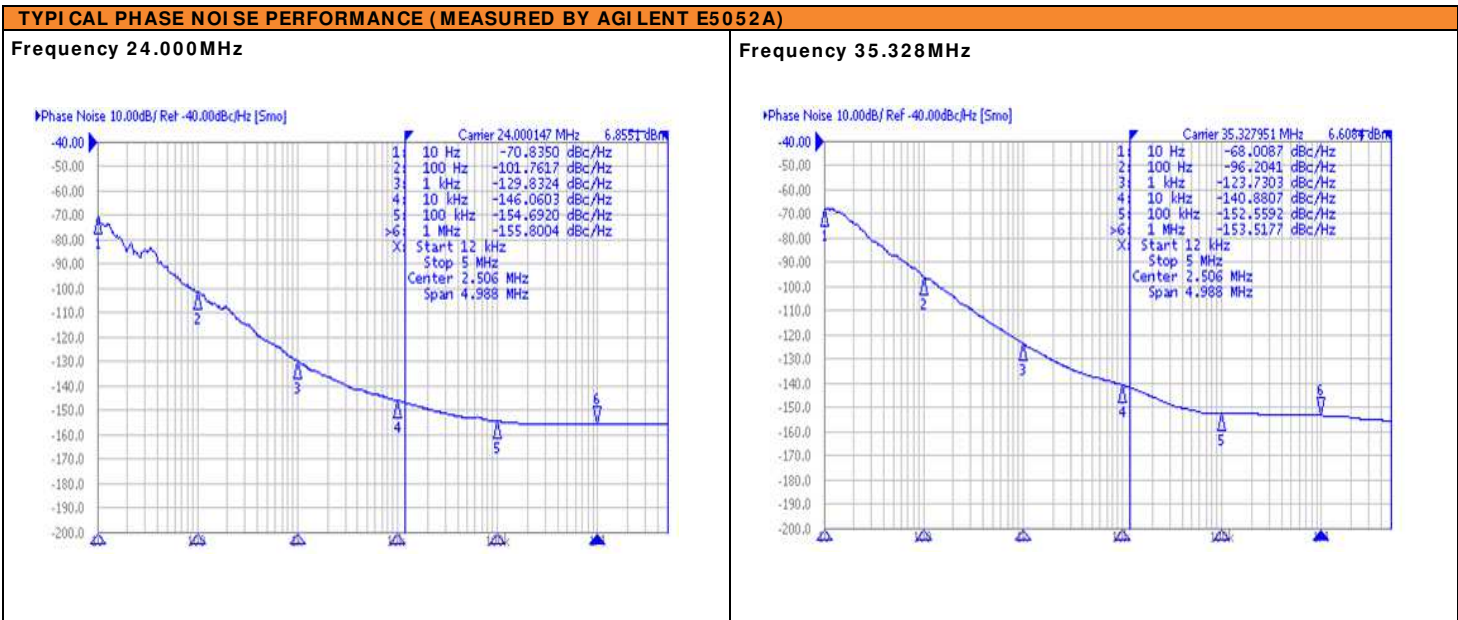
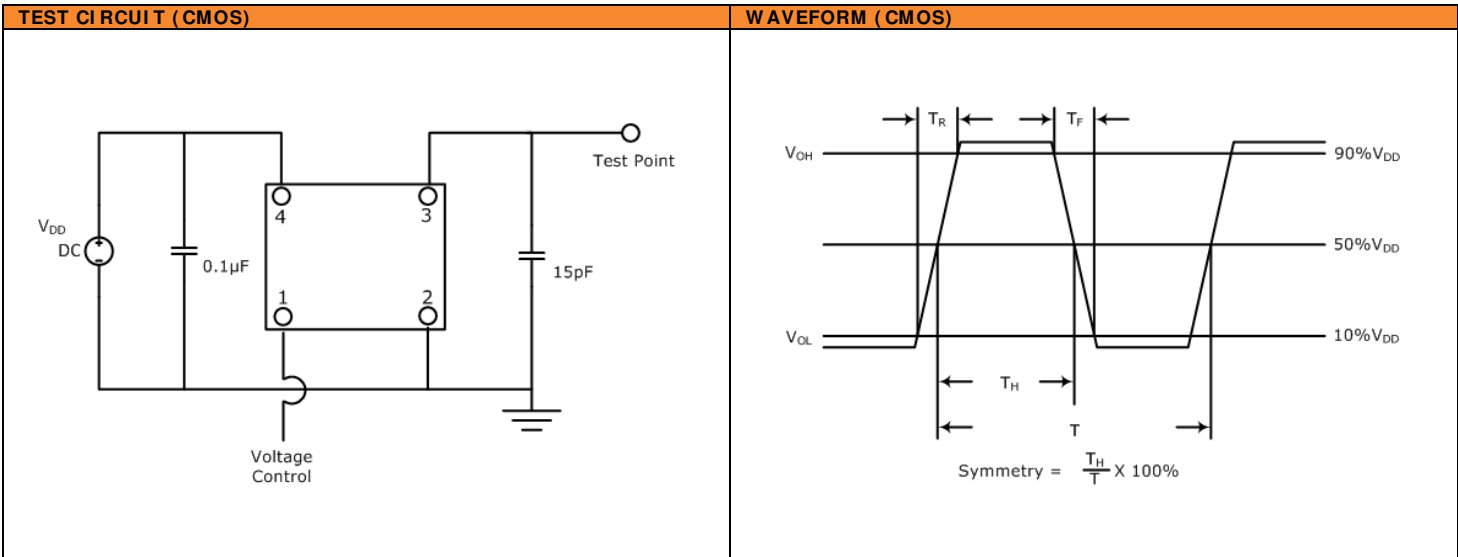
OUTLINE DRAWING

2.5±0.1
 3.2±0.1
 1.2 MAX
 1.0
 2.1±0.1
 0.9±0.1
 0.65±0.1
 1.2
 1.4
 2.1
 1.7

RECOMMENDED LAND PATTERN

PIN	FUNCTION
1	VOLTAGE CONTROL
2	GND
3	OUTPUT
4	V _{DD}

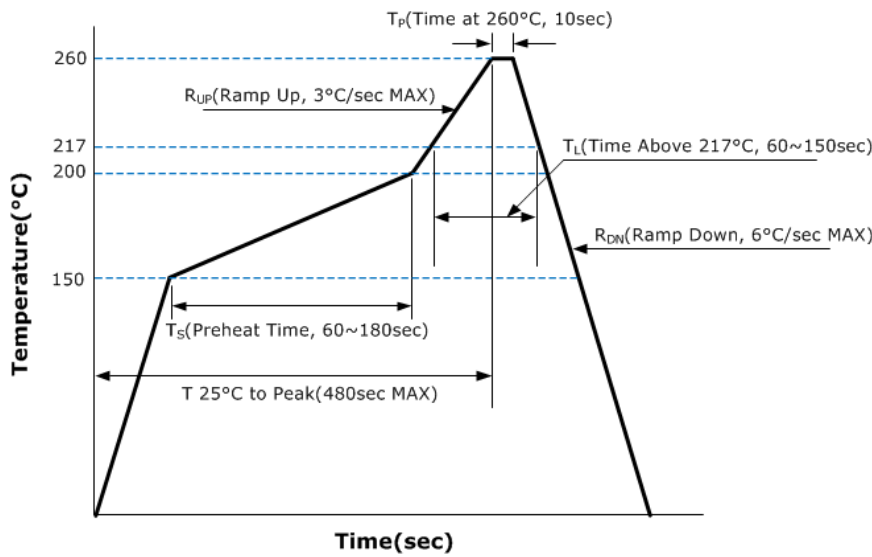
NOTE: Dimensions in millimeters (mm).



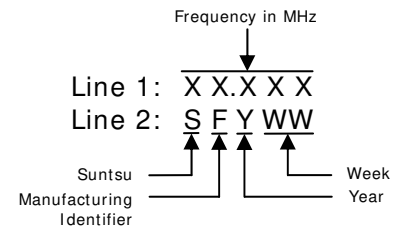
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

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

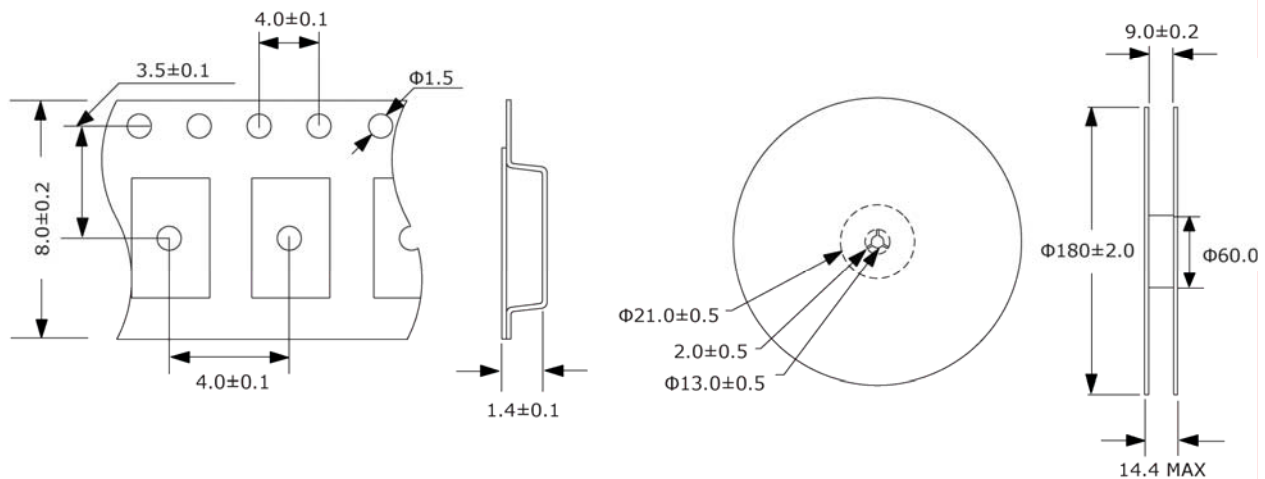


MARKING



TAPE AND REEL DIMENSIONS

3,000pcs/reel



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