

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



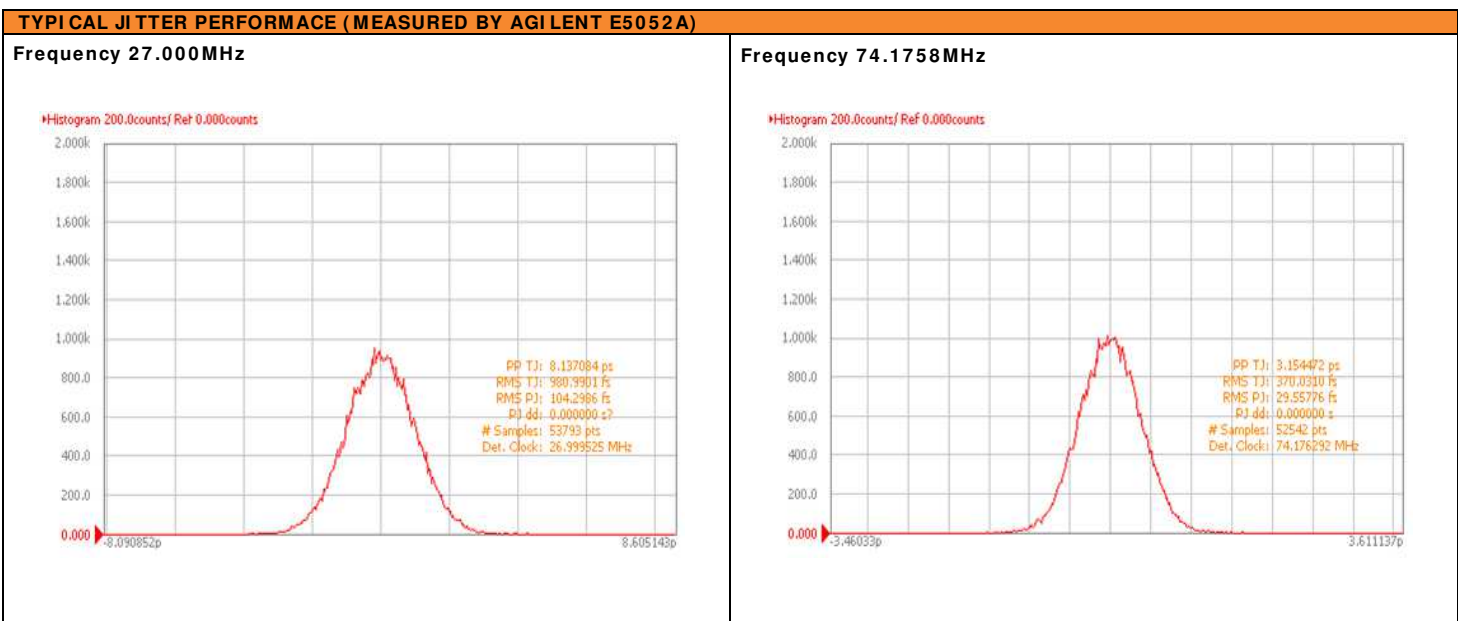
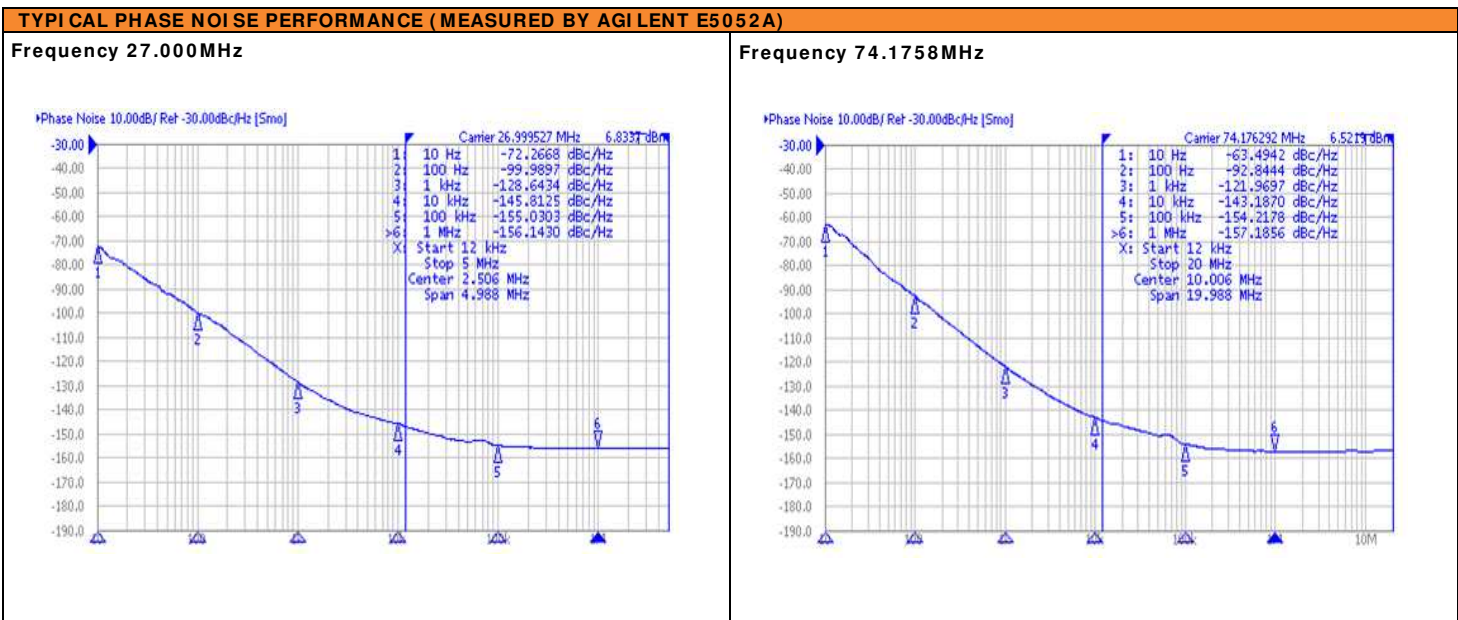
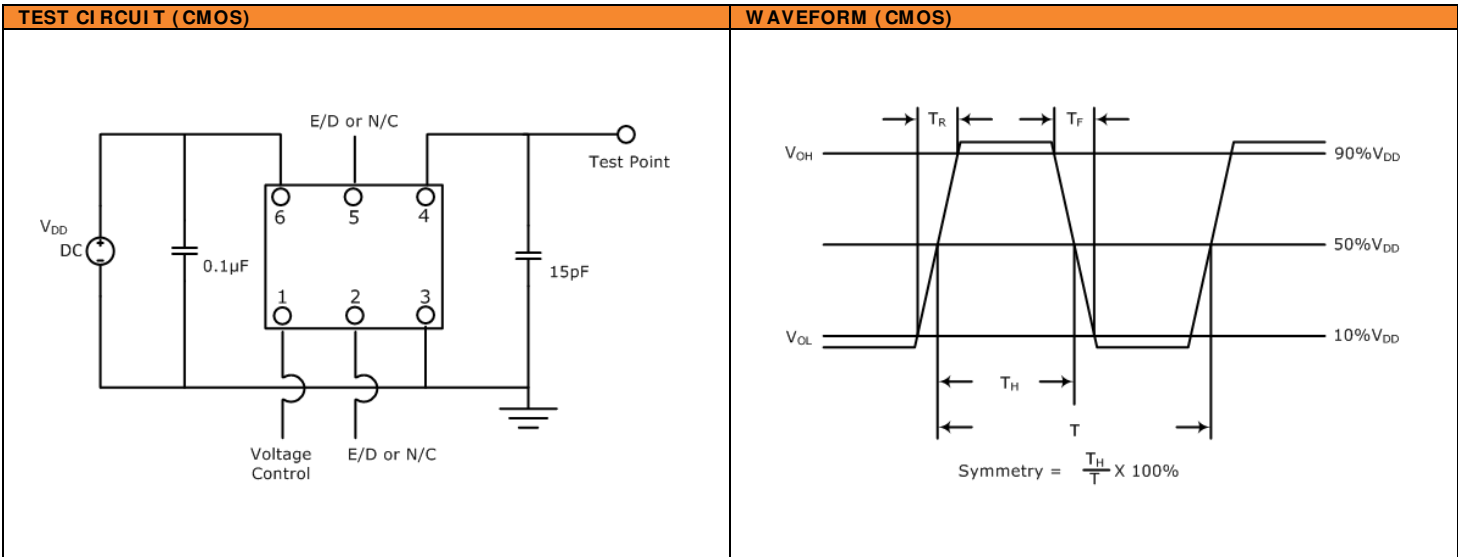
PART NUMBERING GUIDE	
<p>SUNTSU VCXO → SVC 53 C 3 A 48 A 2 - 27.000M ← FREQUENCY (MHz)</p> <p>5.0mm x 3.5mm</p> <p>CMOS</p> <p>SUPPLY VOLTAGE 2: 2.5V±5% 3: 3.3V±5% 5: 5.0V±5%</p> <p>FREQUENCY STABILITY A: ±50ppm B: ±30ppm C: ±25ppm *D: ±20ppm</p>	<p>TRI-STATE (ENABLE/ DISABLE) BLANK: NO CONNECTION 2: Pin 2 5: Pin 5</p> <p>PULLABILITY A: ±150ppm B: ±100ppm C: ±50ppm</p> <p>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</p>

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		200	
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})	2.5V Option	2.375	2.5	2.625	Only available with AT-Cut Fundamental.
	3.3V Option	3.135	3.3	3.465	Available with AT-Cut Fundamental and PLL.
	5.0V Option	4.750	5.0	5.250	Only available with AT-Cut Fundamental.
Current (I _{DD})	2.5V Option			25	25mA max (AT-Cut Fundamental) and 50mA max (PLL).
	3.3V Option			25	
	5.0V Option			30	
Control Voltage (V _C)	2.5V Option	0.2		2.3	
	3.3V Option	0.3		3.0	
	5.0V Option	0.5		4.5	
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})			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	
Tri-State Input Voltage	Enable			0.7*V _{DD}	No Connection.
	Disable			0.3*V _{DD}	
Start-Up Time	ms			10	
Phase Jitter (12kHz ~ 20MHz)				1	AT-Cut Fundamental.
				5	PLL (Phase Lock Loop).

OUTLINE DRAWING															
	<p>RECOMMENDED LAND PATTERN</p> <table border="1"> <thead> <tr> <th>PIN</th> <th>FUNCTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>VOLTAGE CONTROL</td> </tr> <tr> <td>2</td> <td>TRI-STATE or NC</td> </tr> <tr> <td>3</td> <td>GND</td> </tr> <tr> <td>4</td> <td>OUTPUT</td> </tr> <tr> <td>5</td> <td>TRI-STATE or NC</td> </tr> <tr> <td>6</td> <td>V_{DD}</td> </tr> </tbody> </table>	PIN	FUNCTION	1	VOLTAGE CONTROL	2	TRI-STATE or NC	3	GND	4	OUTPUT	5	TRI-STATE or NC	6	V _{DD}
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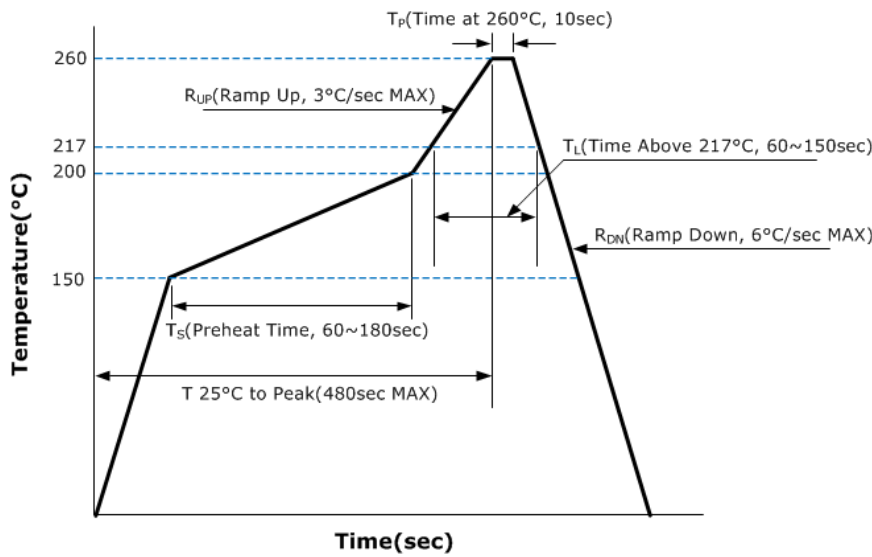
NOTE: Dimensions in millimeters (mm).



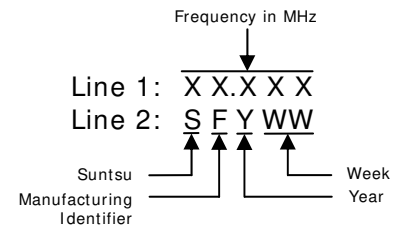
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

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

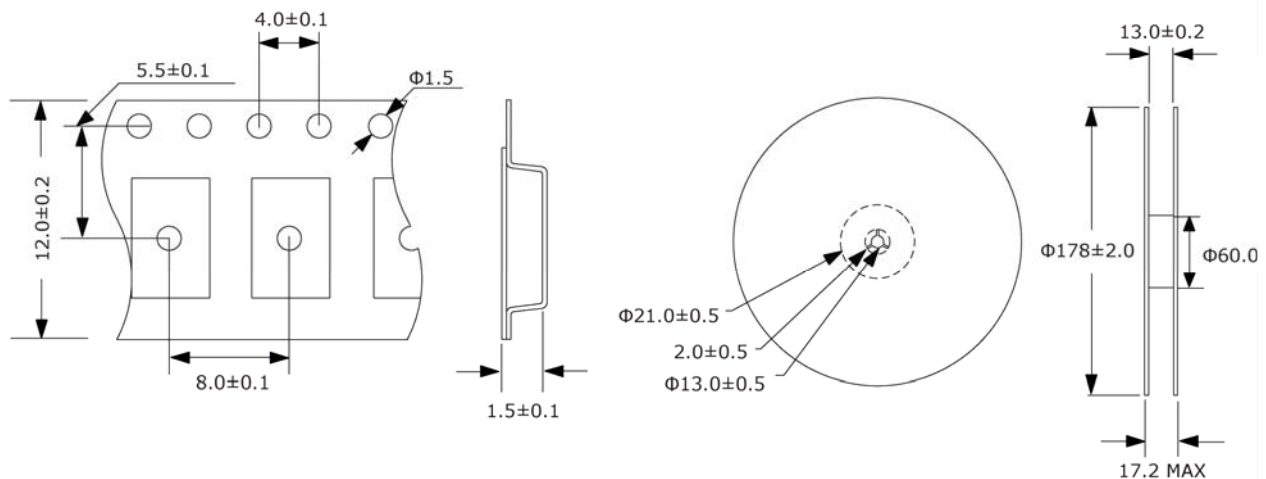


MARKING



TAPE AND REEL DIMENSIONS

1,000pcs/reel



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