

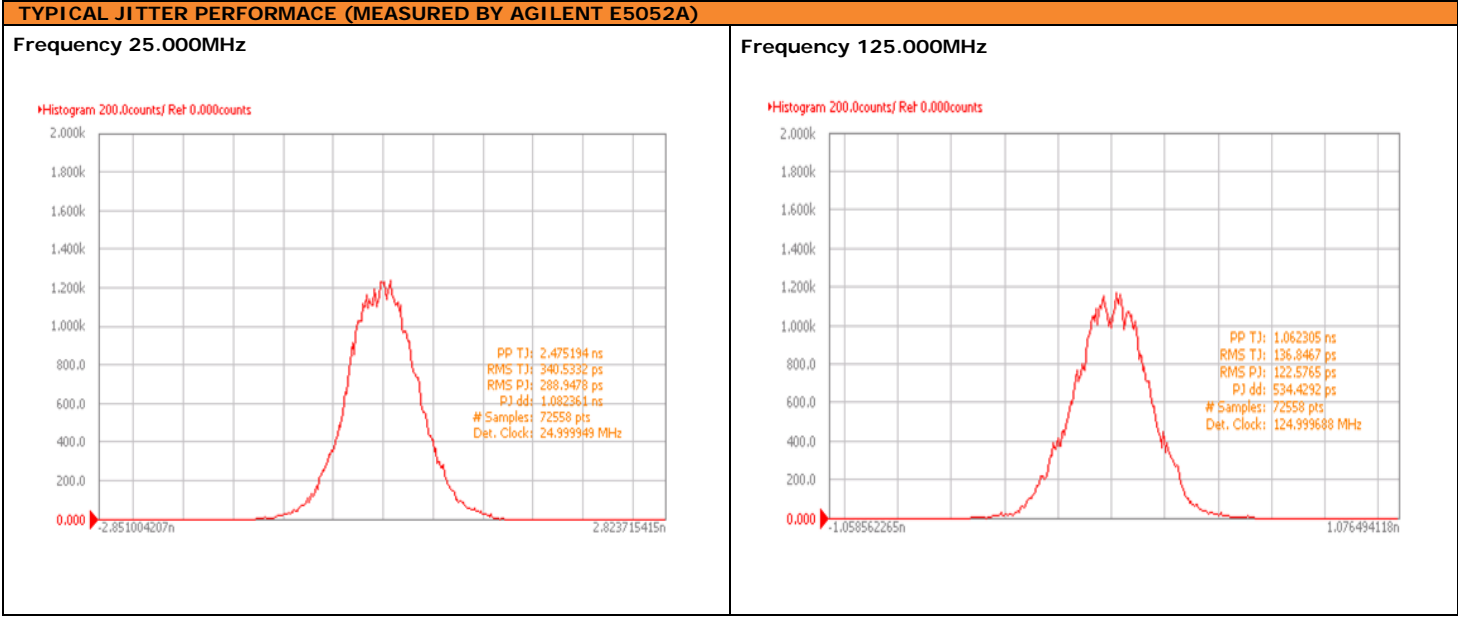
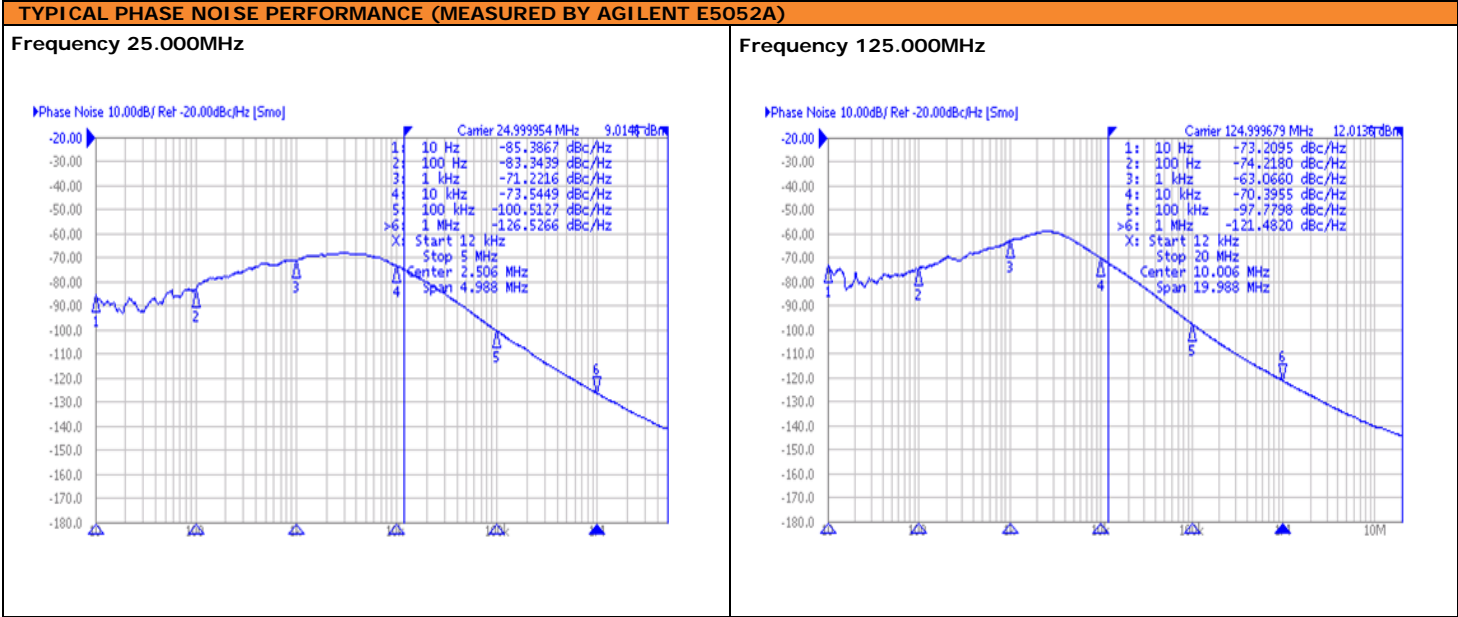
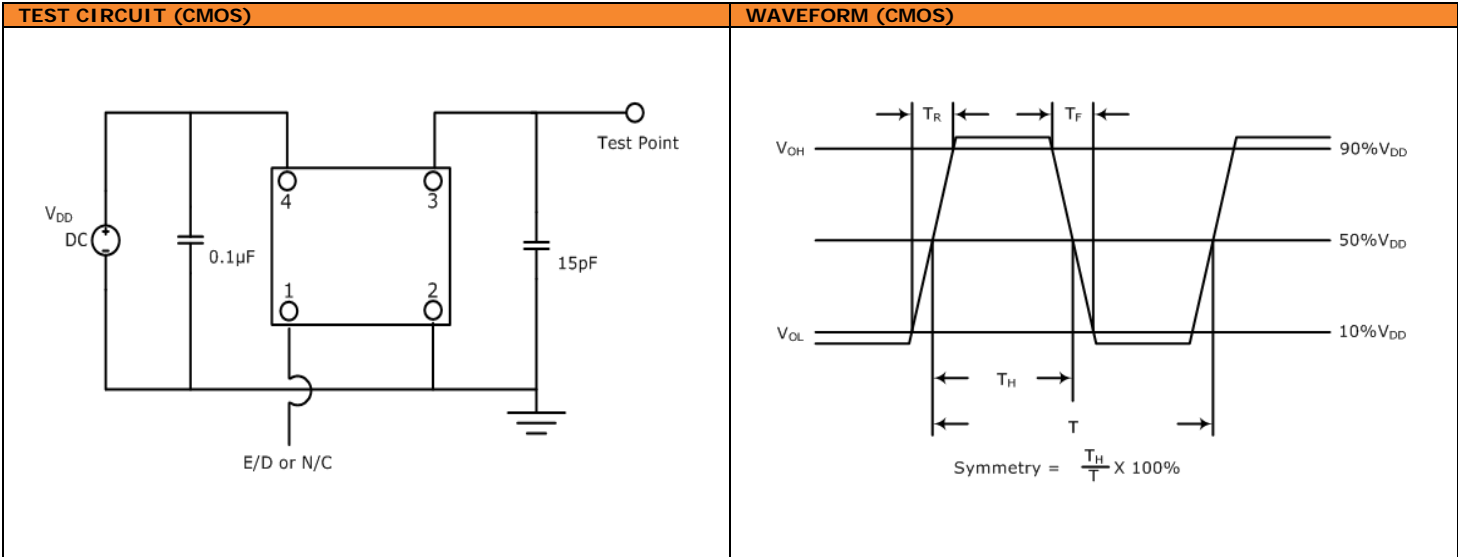
FEATURES	APPLICATIONS
<ul style="list-style-type: none"> - ±25ppm (Frequency Stability) Available - Ceramic Package 4 Pad - CMOS - RoHS Compliant - Programmed Oscillator - Tape and Reel 	<ul style="list-style-type: none"> - Micro Processors - FPGA - Storage Area/Networking - Digital Video - Portable Computers



PART NUMBERING GUIDE	
<p>SUNTSU QUICK TURN OSC → SQC 53 C 3 A 48 1 - 50.000M ← FREQUENCY (MHz)</p> <p>5.0mm x 3.2mm</p> <p>CMOS</p> <p>SUPPLY VOLTAGE 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 1: Pin 1</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>
<p>Cage Code: 4GUT4 To customize your parameters contact a Suntzu representative. * For frequency stability option D contact a Suntzu representative.</p>	

ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range	MHz	1		133	
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})	3.3V Option	3.135	3.3	3.465	
	5.0V Option	4.750	5.0	5.250	
Current (I _{DD})	3.3V Option			25	
	5.0V Option			45	
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			4	
Symmetry (Duty Cycle)	%	45	50	55	
Tri-State Input Voltage(3.3V)	Enable	0.7*V _{DD}			No Connection.
	Disable			0.3*V _{DD}	
Tri-State Input Voltage(5.0V)	Enable	2.0			No Connection.
	Disable			0.8	
Start-Up Time	ms			10	
Phase Jitter (12kHz ~ 20MHz)	ps			11	

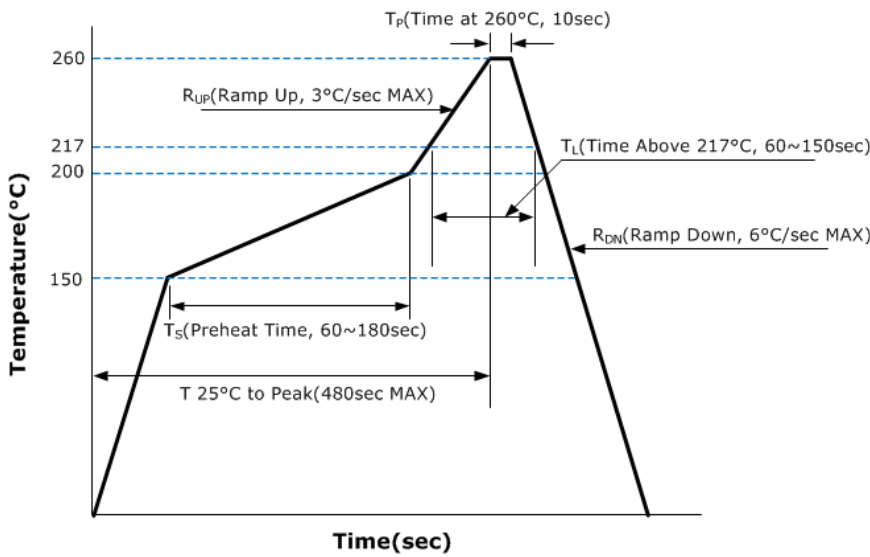
OUTLINE DRAWING											
	<p>RECOMMENDED LAND PATTERN</p>										
<p>NOTE: Dimensions in millimeters (mm).</p>	<table border="1"> <thead> <tr> <th>PIN</th> <th>FUNCTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>TRI-STATE or NC</td> </tr> <tr> <td>2</td> <td>GND</td> </tr> <tr> <td>3</td> <td>OUTPUT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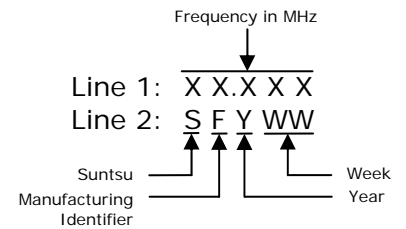
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

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

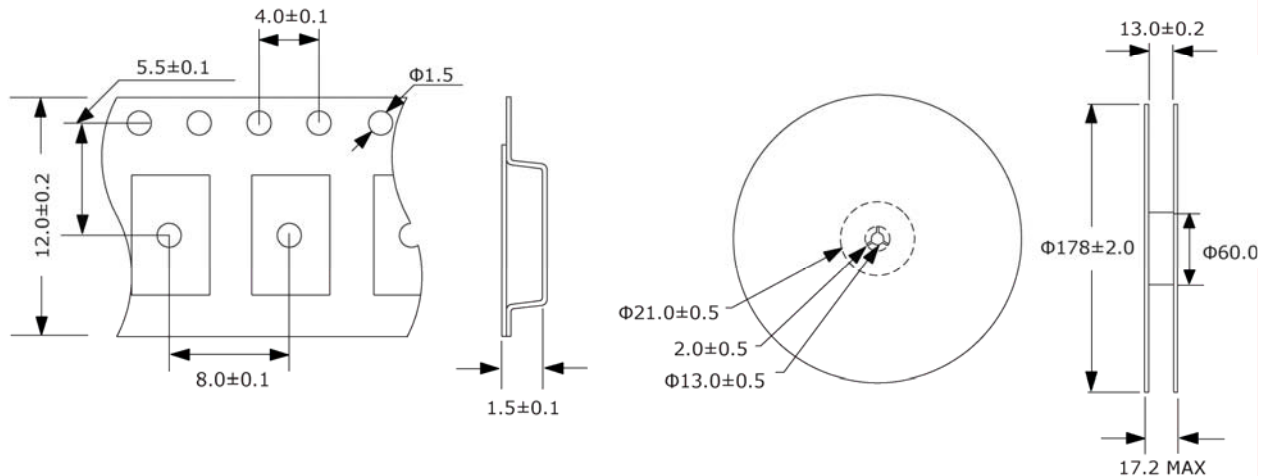


MARKING



TAPE AND REEL DIMENSIONS

1,000pcs/reel



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