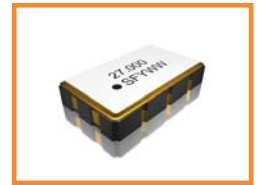


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> ±20ppm (Frequency Stability) Available Ceramic Package CMOS RoHS Compliant Programmed Oscillator Tape and Reel 	<ul style="list-style-type: none"> Micro Processors FPGA Storage Area/Networking Digital Video Portable Computers



PART NUMBERING GUIDE	
<p>SUNTSU QUICK TURN OSC → SQG 53 C 3 A 48 1 - 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%</p> <p>FREQUENCY STABILITY A: ±50ppm B: ±30ppm C: ±25ppm *D: ±20ppm</p>	<p>TRI-STATE (ENABLE/DISABLE) BLANK: NO CONNECTION 1: Pin 1 2: Pin 2</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 Suntsu representative. * For frequency stability option D contact a Suntsu representative.</p>	

ELECTRICAL PARAMETERS	UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range	MHz	8		250	
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	
	3.3V Option	3.135	3.3	3.465	
Current (I _{DD})	2.5V Option			35	
	3.3V 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			3	
Symmetry (Duty Cycle)	%		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)	ps		0.7	1.5	

OUTLINE DRAWING															
	<p>RECOMMENDED LAND PATTERN</p>														
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TEST CIRCUIT (CMOS)	WAVEFORM (CMOS)

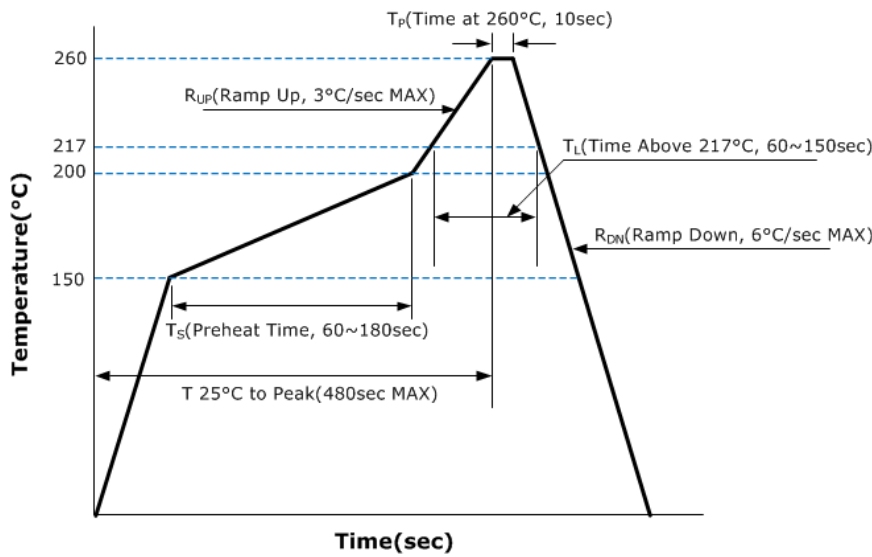
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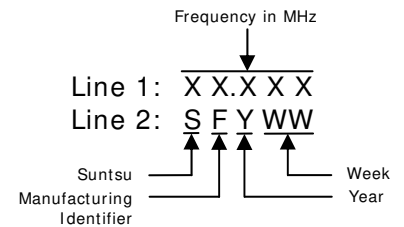
ENVIRONMENTAL & MECHANICAL SPECIFICATIONS

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

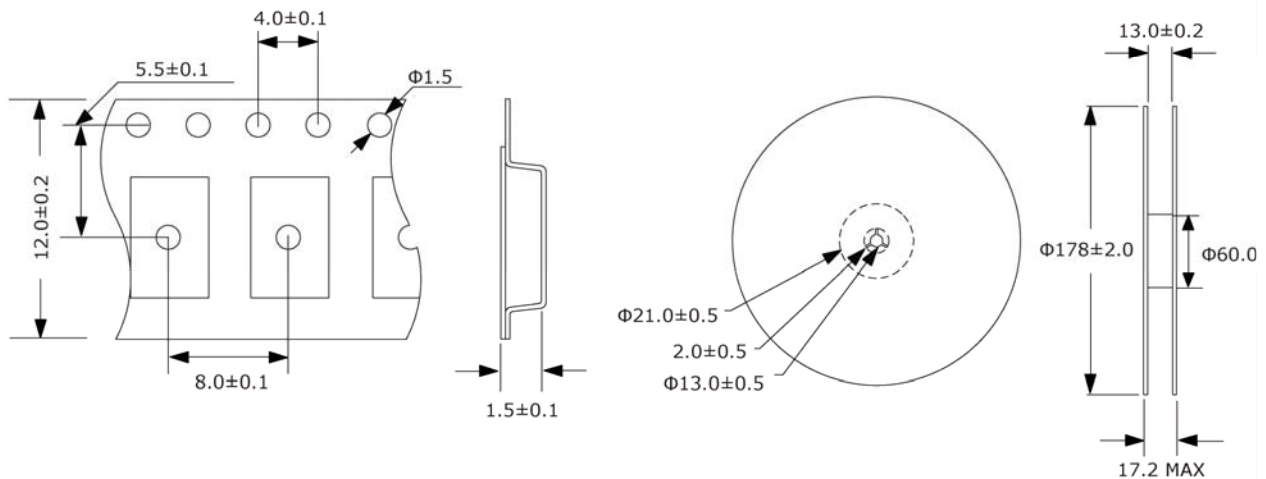


MARKING



TAPE AND REEL DIMENSIONS

1,000pcs/reel



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