

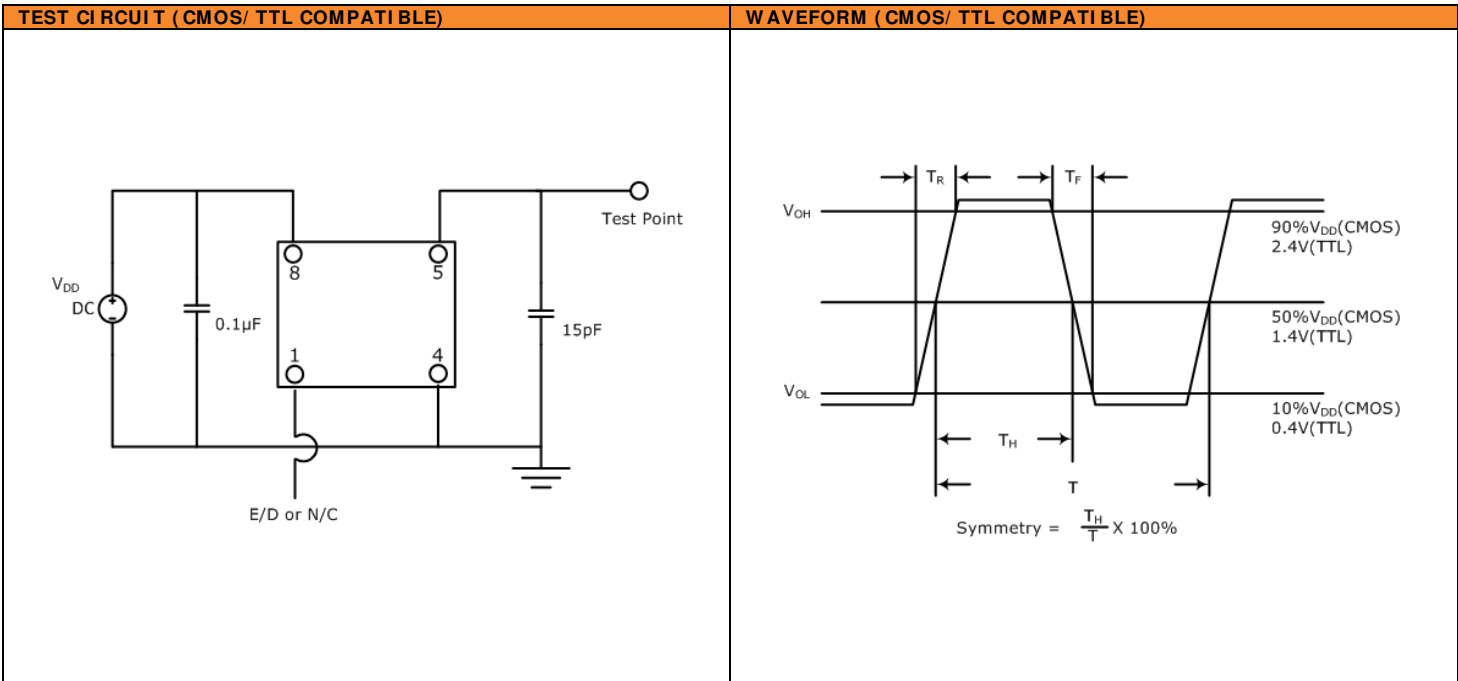
FEATURES	APPLICATIONS
<ul style="list-style-type: none"> ±20ppm (Frequency Stability) Available Standard Half-Size Package CMOS/TTL Compatible RoHS Compliant Tape and Reel 	<ul style="list-style-type: none"> PC Monitor Vision Equipment Printer FAX



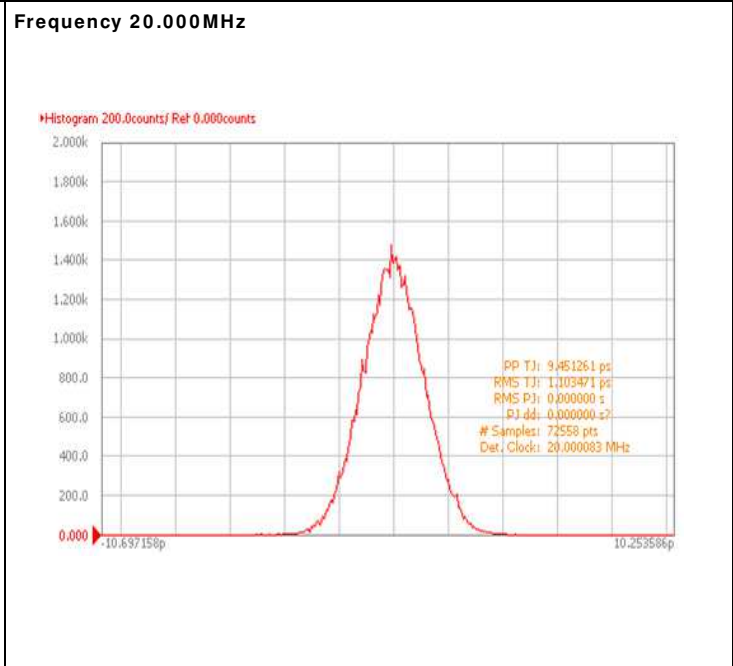
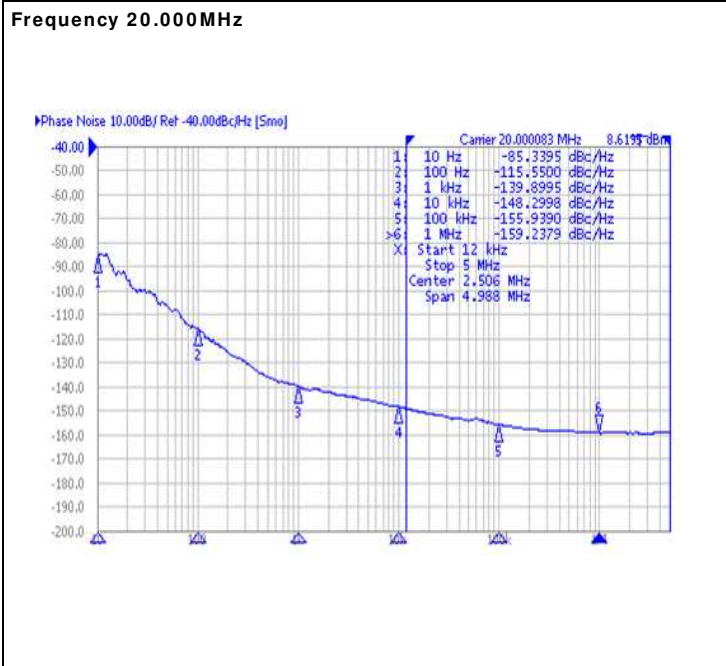
PART NUMBERING GUIDE	
<p>SUNTSU OSC → SXO HS C 3 A 48 1 - 40.000M ← FREQUENCY (MHz)</p> <p>HALF SIZE →</p> <p>CMOS →</p> <p>SUPPLY VOLTAGE</p> <p>1: 1.8V±5%</p> <p>2: 2.5V±5%</p> <p>3: 3.3V±5%</p> <p>5: 5.0V±5%</p> <p>FREQUENCY STABILITY</p> <p>A: ±50ppm</p> <p>B: ±30ppm</p> <p>C: ±25ppm</p> <p>*D: ±20ppm</p>	<p>TRI-STATE (ENABLE/DISABLE)</p> <p>BLANK: NO CONNECTION</p> <p>1: Pin 1</p> <p>OPERATING TEMPERATURE RANGE</p> <p>07: 0°C to +70°C</p> <p>16: -10°C to +60°C</p> <p>17: -10°C to +70°C</p> <p>27: -20°C to +70°C</p> <p>38: -30°C to +85°C</p> <p>48: -40°C to +85°C</p>
<p>Cage Code: 4GUT4</p> <p>To customize your parameters contact a Suntsu representative.</p> <p>* For frequency stability option D contact a Suntsu representative</p>	

ELECTRICAL PARAMETERS		UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range		MHz	0.5000		70.000	1.8V available.
			0.0327		155.52	2.5V, 3.3V, and 5.0V available.
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	1.620	1.8	1.980	
	2.5V Option		2.375	2.5	2.625	
	3.3V Option		3.135	3.3	3.465	
	5.0V Option		4.750	5.0	5.250	
Current (I _{DD})	1.8V Option	mA			10	
	2.5V Option				20	
	3.3V Option				30	
	5.0V Option				40	
Output Load		pF			15	CMOS Load.
		TTL			10	TTL Load.
Output Logic Levels	Output Logic High (V _{OH})	V	0.9* V _{DD}			CMOS Load.
	Output Logic Low (V _{OL})			0.1* V _{DD}	CMOS Load.	
	Output Logic High (V _{OH})		2.4		TTL Load.	
	Output Logic Low (V _{OL})			0.4	TTL Load.	
Rise (T _R) and Fall (T _F) Time		ns			5	
Symmetry (Duty Cycle)		%	45	50	55	
Tri-State Input Voltage	Enable	V	0.7* V _{DD}			No Connection.
	Disable				0.3* V _{DD}	
Start-Up Time		ms			10	
Phase Jitter (12kHz ~ 20MHz)		ps			1	

OUTLINE DRAWING													
			<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>4</td> <td>GND</td> </tr> <tr> <td>5</td> <td>OUTPUT</td> </tr> <tr> <td>8</td> <td>V_{DD}</td> </tr> </tbody> </table>	PIN	FUNCTION	1	TRI-STATE or NC	4	GND	5	OUTPUT	8	V _{DD}
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1	TRI-STATE or NC												
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<p>NOTE: Dimensions in millimeters (mm).</p>													



TYPICAL PHASE NOISE AND JITTER PERFORMANCE (MEASURED BY AGILENT E5052A)



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

MARKING

