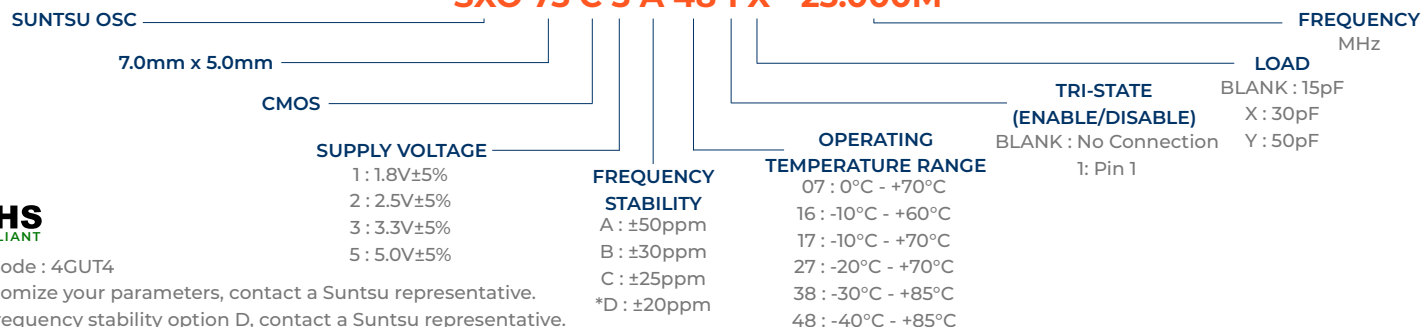


Features	Applications	
• $\pm 20\text{ppm}$ (Frequency Stability) Available • Ceramic Package • CMOS • Tape and Reel	• Micro Processors • SONET/SDH/DWDM • Storage Area/Networking • Digital Video • Base Stations	

Part Numbering Guide

SXO 75 C 3 A 48 1 X - 25.000M



Cage Code : 4GUT4

To customize your parameters, contact a Suntsu representative.

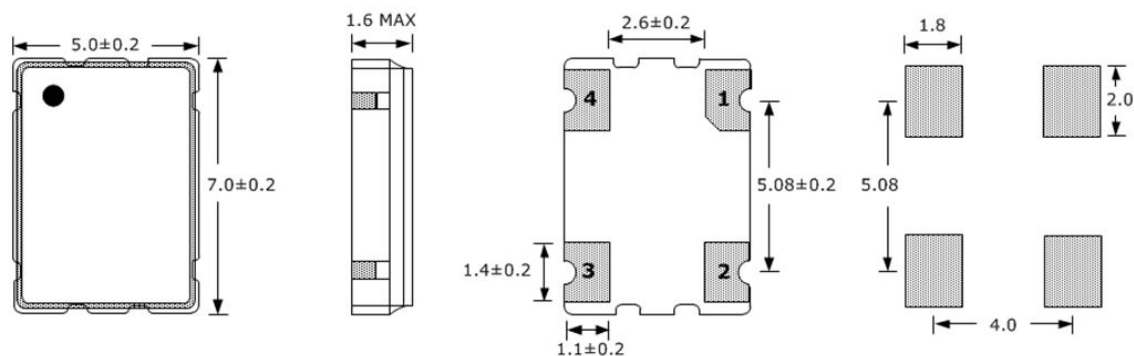
* For Frequency stability option D, contact a Suntsu representative.

** For operating temperatures up to -55-125°C contact a Suntsu representative.

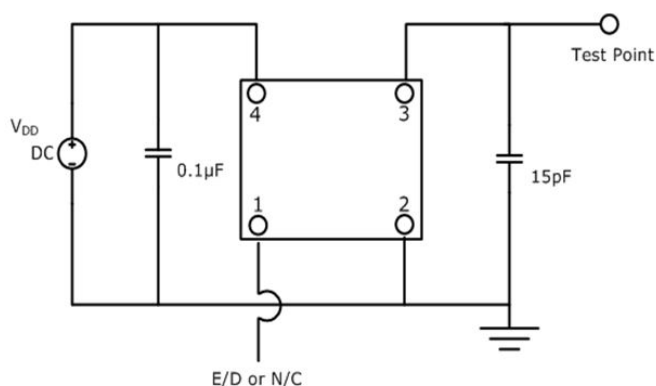
Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	KHz	32.768*			(*32.768KHz not available in 5.0V)
Frequency Range	MHz	1		200*	(*125MHz Max for 5.0V Option)
Frequency Stability (Includes Initial Tolerance at 25°C, Frequency Stability over Operating Temperature, Output Load Change, 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	°C	-55		+125	
Supply Voltage (V _{DD}) - 1.8V option	V	1.710	1.8	1.890	
Supply Voltage (V _{DD}) - 2.5V option	V	2.375	2.5	2.625	
Supply Voltage (V _{DD}) - 3.3V option	V	3.135	3.3	3.465	
Supply Voltage (V _{DD}) - 5.0V option	V	4.75	5.0	5.25	
Frequency Range		1.8V	2.5V	3.3V / 5.0V	
32.768KHz	mA	5	5	5 / *NA	Maximum Value (*32.768KHz not available in 5.0V)
Current (I _{DD}) 1.0000MHz - 34.999MHz	mA	8	10	16 / 25	Maximum Value
35.000MHz - 59.999MHz	mA	10	20	25 / 40	Maximum Value
60.000MHz - 99.000MHz	mA	25	30	40 / 70	Maximum Value
100.000MHz - 200.000MHz	mA	35	50	65 / 90*	Maximum Value (*at 125MHz Max for 5.0V)
Output Load (CMOS)	pF			15	See part numbering guide for options
Output Logic Levels High (V _{OH})	V	0.9*V _{DD}			
Output Logic Levels Low (V _{OL})	V			0.1*V _{DD}	
32.768KHz	ns			200	
Rise (TR) and 1.0000MHz - 34.999MHz	ns			10	
Fall (TF) Time 35.000MHz - 99.999MHz	ns			6	
100.000MHz - 200.000MHz	ns			3	
Symmetry (Duty Cycle)	%	45	50	55	
Tri-State Input Voltage - Enable	V	0.7*V _{DD}			No Connection
Tri-State Input Voltage - Disable	V			0.3*V _{DD}	
Start-Up Time	ms			10	
Phase Jitter (12kHz ~ 20MHz)	ps			1	

Outline Drawing & Land Pattern

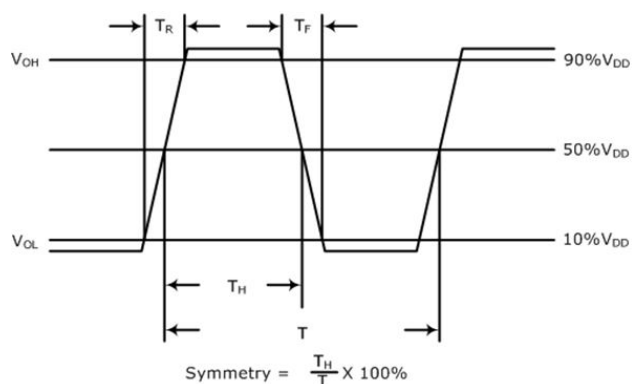
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



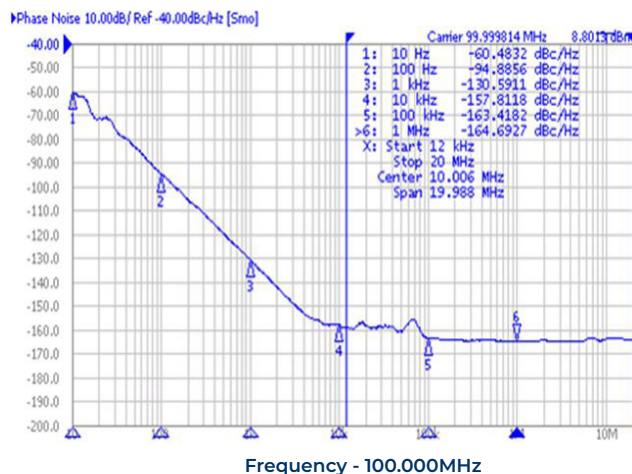
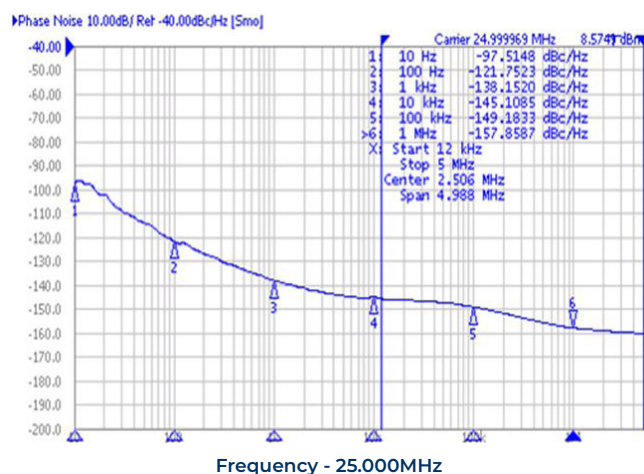
Test Circuit (CMOS)



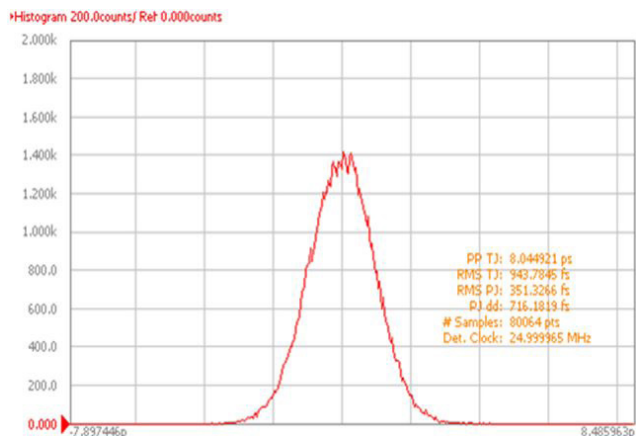
Waveform (CMOS)



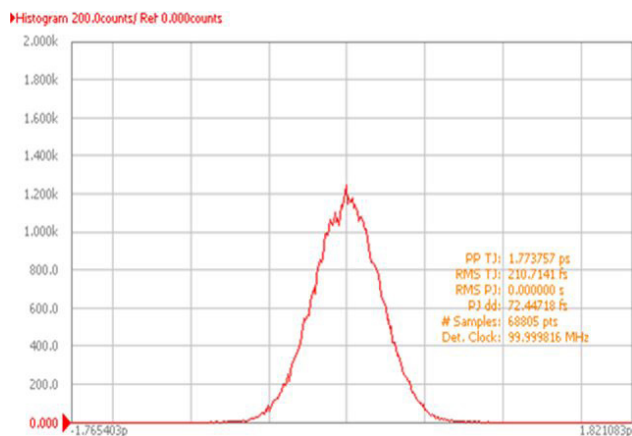
Typical Phase Noise Performance (Measured By Agilent E5052A)



Typical Jitter Performance (Measured By Agilent E5052A)

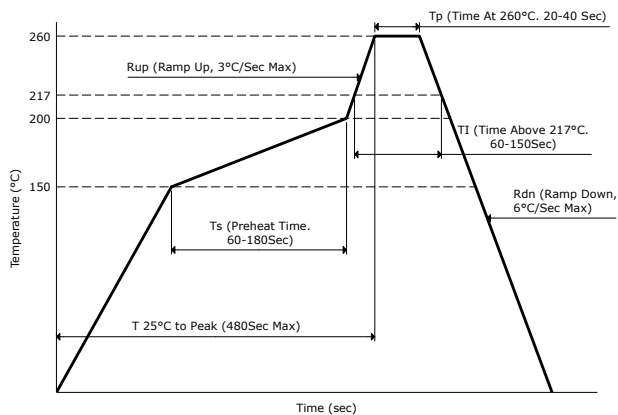


Frequency - 25.000MHz

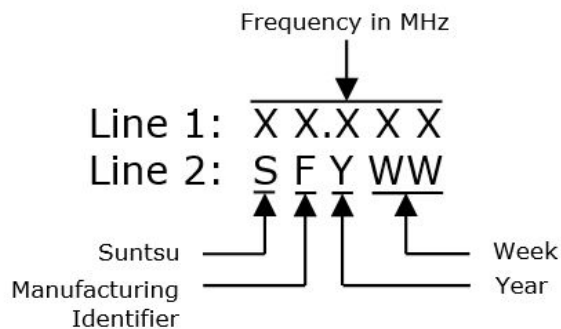


Frequency - 100.000MHz

Reflow Profile



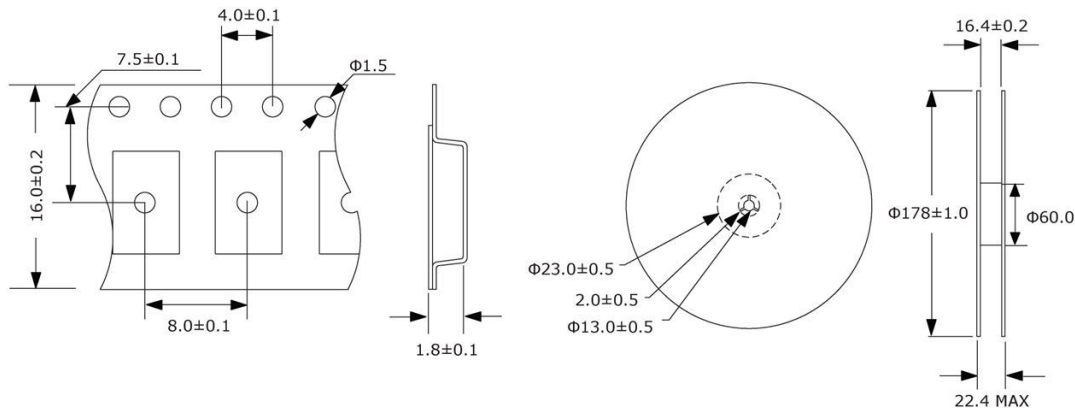
Part Marking



Tape And Reel Dimensions

All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.

1,000pcs/Reel



Environmental Specifications		Mechanical Specifications	
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	Mechanical Shock	MIL-STD-202, Method 213, Condition B
Fine Leak Test	MIL-STD-883, Method 1014, Condition A	Vibration	MIL-STD-883, Method 2007, Condition A
Gross Leak Test	MIL-STD-883, Method 1014, Condition C	Moisture Resistance	MIL-STD-883, Method 1004
Solderability	MIL-STD-883, Method 2003	Resistance to Solvents	MIL-STD-202, Method 215
Moisture Sensitivity	J-STD-020, MSL 1	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition K