SUNTSU

Metal Full lf Size DIP CMOS Oscillator

SXOFSC Series

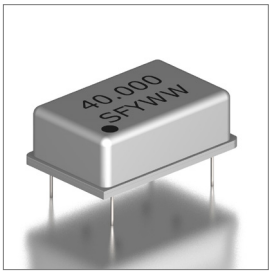
20.7mm x 13.1mm

Features

- ±20ppm (Frequency Stability) Available
- Standard Full-Size Package
- CMOS/TTL Compatible

Applications

- PC
- Monitor
- Vision Equipment
- Printer
- FAX



Part Numbering Guide

SXO FS C 3 A 48 1 - 40.000M

- **SUNTSU OSC**
- **FULL SIZE**
- **CMOS**
- **SUPPLY VOLTAGE**
  - 2 : 2.5V±5%
  - 3 : 3.3V±5%
  - 5 : 5.0V±5%
- **FREQUENCY STABILITY**
  - A : ±50ppm
  - B : ±30ppm
  - C : ±25ppm
  - *D : ±20ppm
- **OPERATING TEMPERATURE RANGE**
  - 07 : 0°C - +70°C
  - 16 : -10°C - +60°C
  - 17 : -10°C - +70°C
  - 27 : -20°C - +70°C
  - 38 : -30°C - +85°C
  - 48 : -40°C - +85°C
- **TRI-STATE (ENABLE/DISABLE)**
  - BLANK : No Connection
  - 1 : Pin 1
- **FREQUENCY** MHz

RoHS COMPLIANT

Cage Code : 4GUT4

To customize your parameters, contact a Suntsu representative.

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

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	0.0327		155.52	
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}) - 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	4.750	5.0	5.250	
Current (I_{DD}) - 2.5V option	mA			20	
Current (I_{DD}) - 3.3V option	mA			30	
Current (I_{DD}) - 5.0V option	mA			40	
Output Load (CMOS)	pF			15	
Output Load (TTL)	TTL			10	
Output Logic Levels High (V_{OH}) - CMOS	V	0.9*V_{DD}			
Output Logic Levels Low (V_{OL}) - CMOS	V			0.1*V_{DD}	
Output Logic Levels High (V_{OH}) - TTL	V	2.4			
Output Logic Levels Low (V_{OL}) - TTL	V			0.4	
Rise (TR) and Fall (TF) Time	ns			5	
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	

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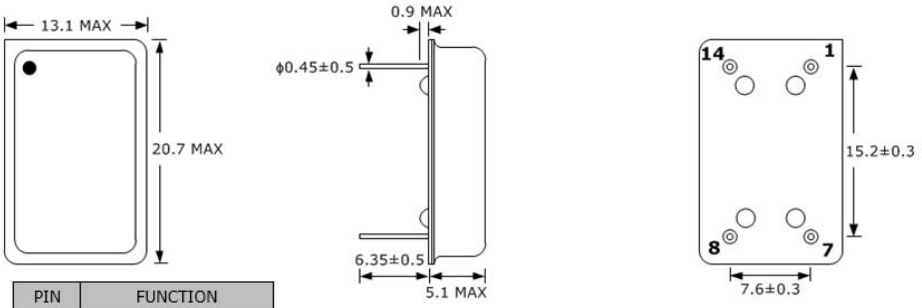
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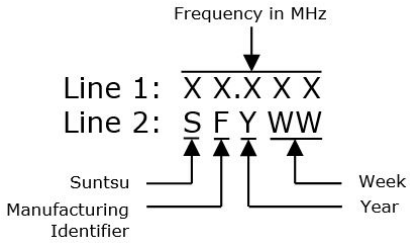
20.7mm x 13.1mm

Outline Drawing & Part Marking

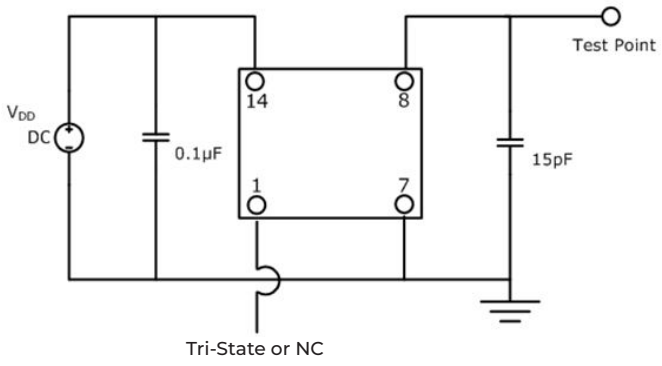
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



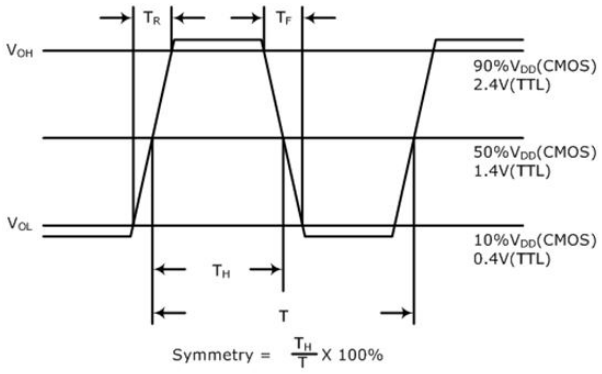
PIN	FUNCTION
1	TRI-STATE or NC
7	GND
8	OUTPUT
14	V_{DD}



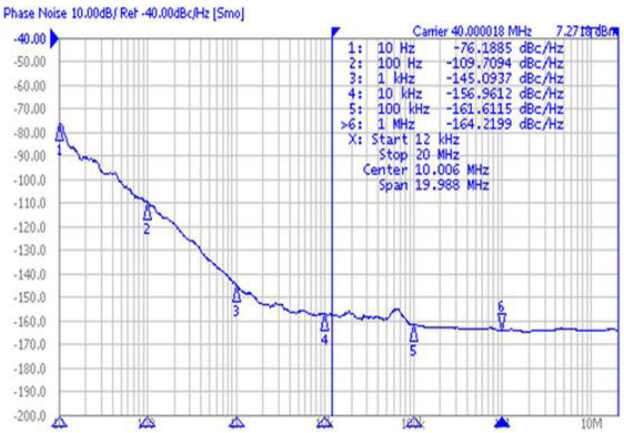
Test Circuit (CMOS /TTL COMPATIBLE)



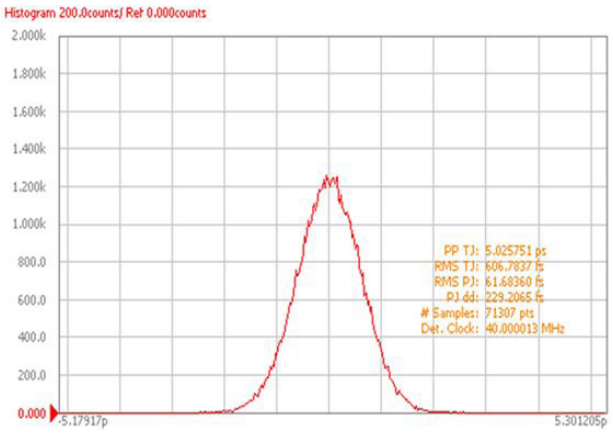
Waveform (CMOS /TTL COMPATIBLE)



Typical Phase Noise & Jitter Performance (Measured By Agilent E5052A)



Frequency - 40.000MHz



Frequency - 40.000MHz

www.suntsu.com

Specifications are subject to change without notice.

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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

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