SUNTSU

Metal Full Size DIP Sinewave OCXO

SOCFSS Series

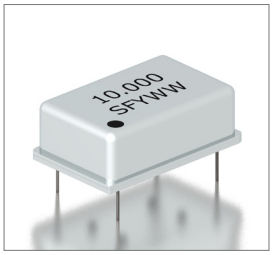
20.7mm x 13.1mm

Features

- ±50ppb (Frequency Stability) Available
- Sinewave
- OCXO

Applications

- Military Communication Equipment
- Base Stations
- Test Equipment
- Synthesizers
- Digital Switching



Part Numbering Guide

SOC FS S 12 K 27 - 10.000M

- SUNTSU OCXO
- FULL SIZE
- SINEWAVE
- SUPPLY VOLTAGE
  - 03 : 3.0V±5%
  - 05 : 5.0V±5%
  - 09 : 9.0V±5%
  - 12 : 12.0V±5%
- FREQUENCY STABILITY
  - F : ±500ppb
  - I : ±200ppb
  - J : ±100ppb
  - K : ±50ppb
- OPERATING TEMPERATURE RANGE
  - 05 : 0°C - +50°C
  - 15 : -10°C - +55°C
  - 27 : -20°C - +70°C
  - 48 : -40°C - +85°C
- FREQUENCY MHz

RoHS COMPLIANT

Cage Code: 4GUT4

To customize your parameters contact a Suntsu representative.

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	10		80	
Frequency Tolerance at +25°C	ppb	-100		+100	
Freq. Stability vs. Op Temp.	ppb	-50		+50	See part numbering guide for options.
Freq. Stability vs. Supply Voltage	ppb	-20		+20	V_{DD} ±5% Change
Freq. Stability vs. Load	ppb	-20		+20	±10% Change
Freq. Stability vs. Aging/Year	ppb	-4.6		+4.6	See part numbering guide for options.
Operating Temperature	°C	-20		+60	See part numbering guide for options.
Storage Temperature	°C	-45		+85	
Supply Voltage (V_{DD})	V	V_{DD}-5%	V_{DD}	V_{DD}+5%	
Power Consumption At Turn On	W			2.5	
Power Consumption At 25°C	W			1.0	
Control Voltage (V_C)	V	0.5		4.5	
Control Middle Voltage	V		2.5		
Pullability	ppm	±3.0	±5.0	±8.0	
Linearity	%			10	
V_C Input Impedance	KΩ	50			
Deviation Slope			Positive		
Output Logic (SINEWAVE) Load	Ω			50	
Output Logic Waveform	dBm	7			
Output Logic Spurious (Harmonic)	dBc			-30	
Output Logic Spurious (Non-Harmonic)	dBc			-70	
Symmetry (Duty Cycle)	%	45	50	55	
Start-Up Time	ms			3	At 25°C After 5Mins.
Warm-Up Time	ppb	-100		100	

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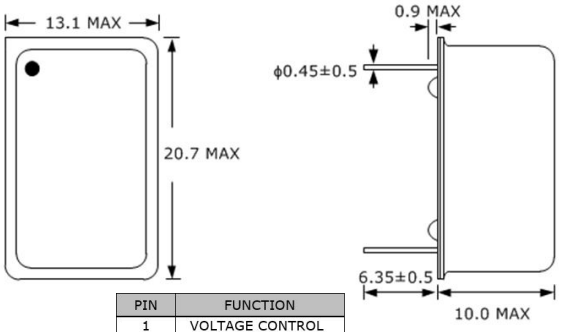
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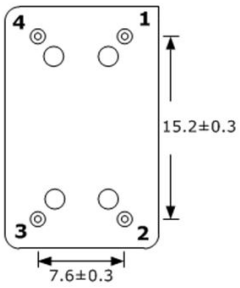
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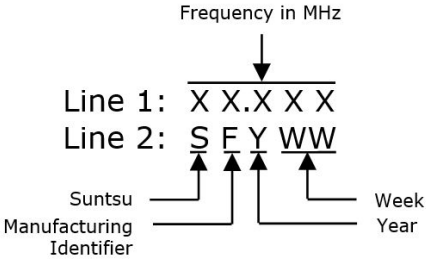
Outline Drawing & Part Marking

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

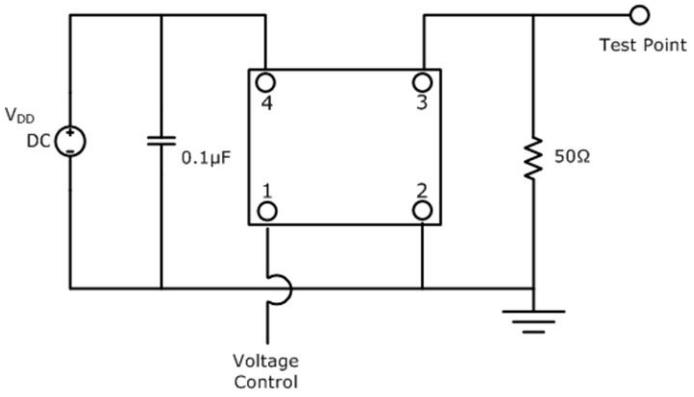


PIN	FUNCTION
1	VOLTAGE CONTROL
2	GND
3	OUTPUT
4	V_{DD}

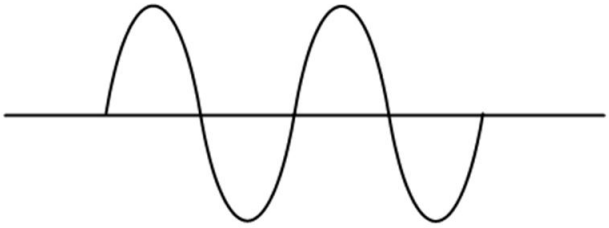




Test Circuit (Sinewave)

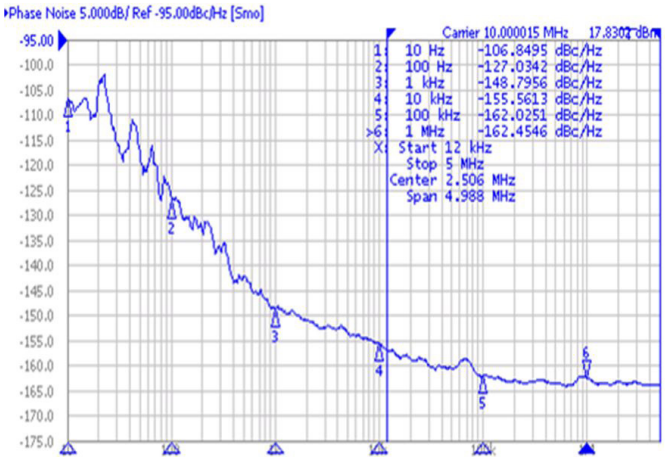


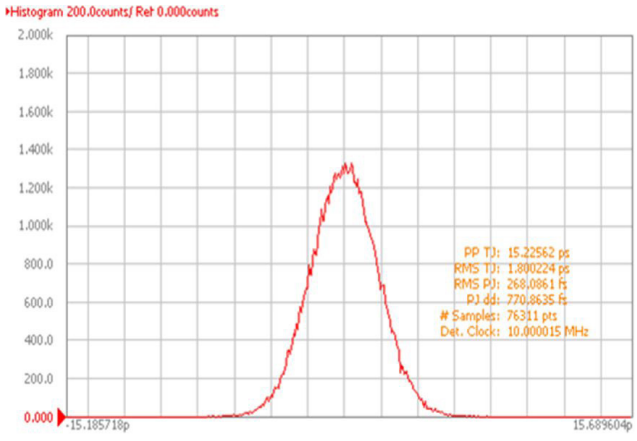
Waveform (Sinewave)



Sinewave Output, +7dBm mim. Into 50Ω

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





Frequency - 10.000MHz

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
Lead Integrity	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	Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition A
Solderability	MIL-STD-883, Method 2003	Resistance to Solvents	MIL-STD-202, Method 215

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