

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> <li>- ±10ppb (Frequency Stability) Available</li> <li>- Sinewave</li> <li>- OCXO</li> <li>- RoHS Compliant</li> </ul>	<ul style="list-style-type: none"> <li>- Military Communication equipment</li> <li>- Base Stations</li> <li>- Test Equipment</li> <li>- Synthesizers</li> <li>- Digital Switching</li> </ul>



### PART NUMBERING GUIDE

**SUNTSU OCXO** → **SOC 25 S 12 K 26 A - 10.000M** ← **FREQUENCY (MHz)**

**25.4mm x 25.4mm**

**SINEWAVE**

**SUPPLY VOLTAGE**  
05: 5.0V±5%  
12: 12.0V±5%

**FREQUENCY STABILITY**  
F: ±500ppb  
I: ±200ppb  
J: ±100ppb  
K: ±50ppb  
L: ±20ppb  
M: ±10ppb

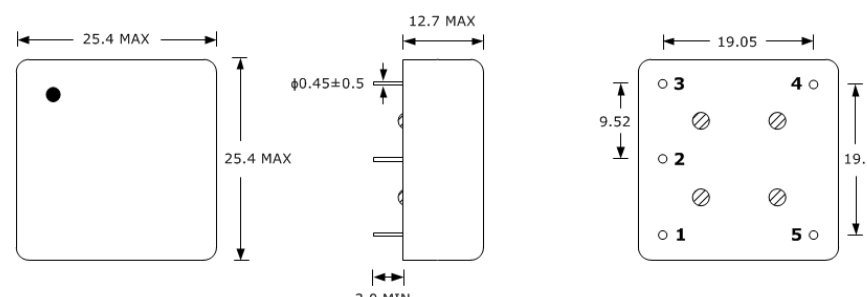
**AGING**  
BLANK: ±500ppb/year  
A: ±200ppb/year  
B: ±100ppb/year

**OPERATING TEMPERATURE RANGE**  
05: 0°C to + 50°C  
15: -10°C to + 55°C  
26: -20°C to + 60°C  
37: -30°C to + 70°C  
47: -40°C to + 70°C

Cage Code: 4GUT4  
To customize your parameters contact a Suntsu representative.

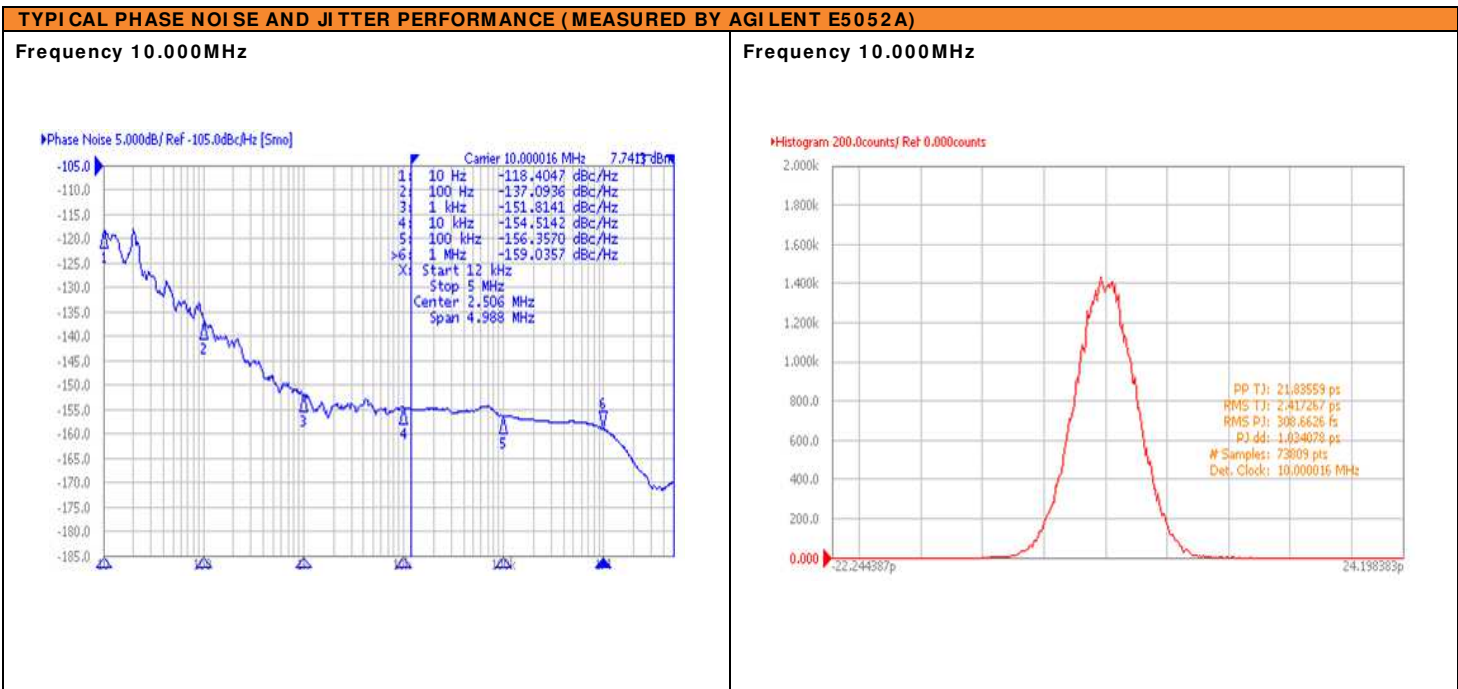
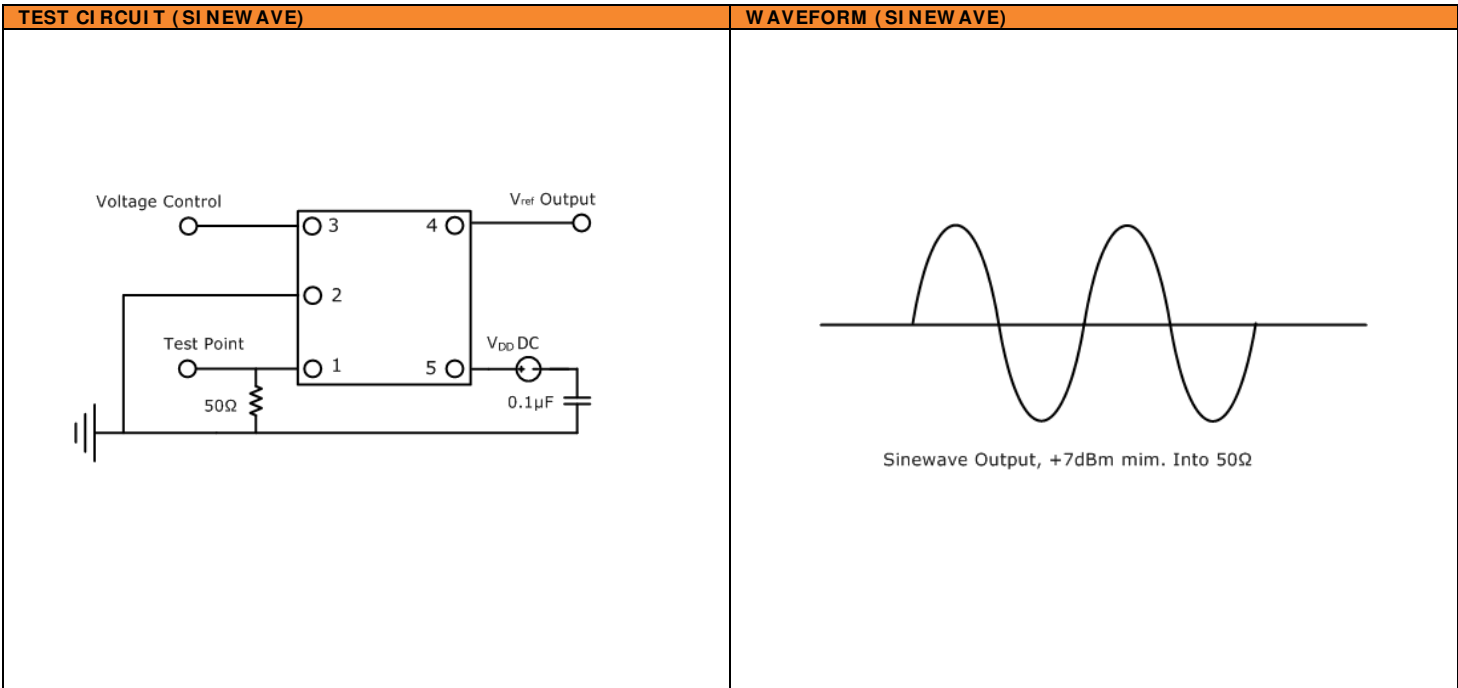
ELECTRICAL PARAMETERS		UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range		MHz	5		100	
Frequency Tolerance at +25°C			-100		100	
Frequency Stability vs. Operating Temperature (Ref. 25°C)			-50		50	See part numbering guide for options.
vs. Supply Voltage		ppb	-5		5	V <sub>DD</sub> ±5% change.
vs. Load			-5		5	±10% change.
vs. Aging/Year			-500		500	See part numbering guide for options.
Operating Temperature		°C	-20		+60	See part numbering guide for options.
Storage Temperature			-45		+85	
Supply Voltage (V <sub>DD</sub> )	5.0V Option	V	4.750	5.0	5.250	
	12.0V Option		11.40	12.0	12.60	
Power Consumption at Turn On		W		3.0	3.6	
Power Consumption at 25°C (Steady State)				0.9	1.0	
Control Voltage (V <sub>C</sub> )		V	0.0		5.0	
Control Middle Voltage				2.5		
Pullability		ppm	±0.5			
Linearity		%			10	
V <sub>C</sub> Input Impedance		kΩ	50			
Deviation Slope				Positive		
Output Logic(Sinewave)	Load	Ω			50	
	Waveform	dBm	7			
	Spurious (Harmonic)				-30	
	Spurious (Non-Harmonic)	dBc			-70	
Reference Voltage Output (V <sub>ref</sub> )		V	4.5		5	4.5V at V <sub>DD</sub> 5.0V, 5V at V <sub>DD</sub> 12V
Symmetry (Duty Cycle)		%	45	50	55	
Start-Up Time		ms			3	
Warm-Up Time		ppb	-100		100	At 25°C after 5 min.

### OUTLINE DRAWING



NOTE: Dimensions in millimeters (mm).

PIN	FUNCTION
1	OUTPUT
2	GND
3	VOLTAGE CONTROL
4	REFERENCE VOLTAGE OUTPUT
5	V <sub>DD</sub>



ENVIRONMENTAL & MECHANICAL SPECIFICATIONS		MARKING
Temperature Cycling	MIL-STD-883, Method 1010, Condition B	<p>Frequency in MHz</p> <p>↓</p> <p>Line 1: <u>X X.X X X</u></p> <p>Line 2: <u>S F Y W W</u></p> <p>Suntsu Manufacturing Identifier      Week Year</p>
Lead Integrity	MIL-STD-883, Method 2004	
Gross Leak Test	MIL-STD-883, Method 1014, Condition C	
Mechanical Shock	MIL-STD-202, Method 213, Condition C	
Vibration	MIL-STD-883, Method 2007, Condition A	
Resistance to Soldering Heat	MIL-STD-202, Method 210	
Resistance to Solvents	MIL-STD-202, Method 215	
Solderability	MIL-STD-883, Method 2003	