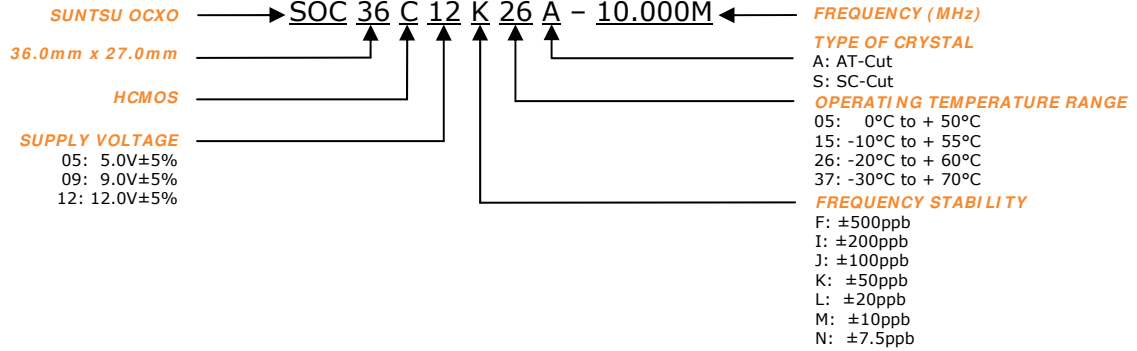


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> <li>- ±7.5ppb (Frequency Stability) Available</li> <li>- HCMOS/TTL</li> <li>- OCXO</li> <li>- RoHS Compliant</li> <li>- AT-Cut or SC-Cut</li> </ul>	<ul style="list-style-type: none"> <li>- Military Communication equipment</li> <li>- Base Stations</li> <li>- Test Equipment</li> <li>- Synthesizers</li> <li>- Digital Switching</li> </ul>



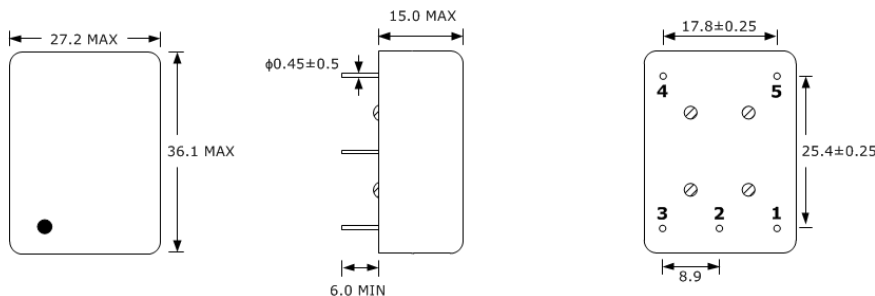
### PART NUMBERING GUIDE



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

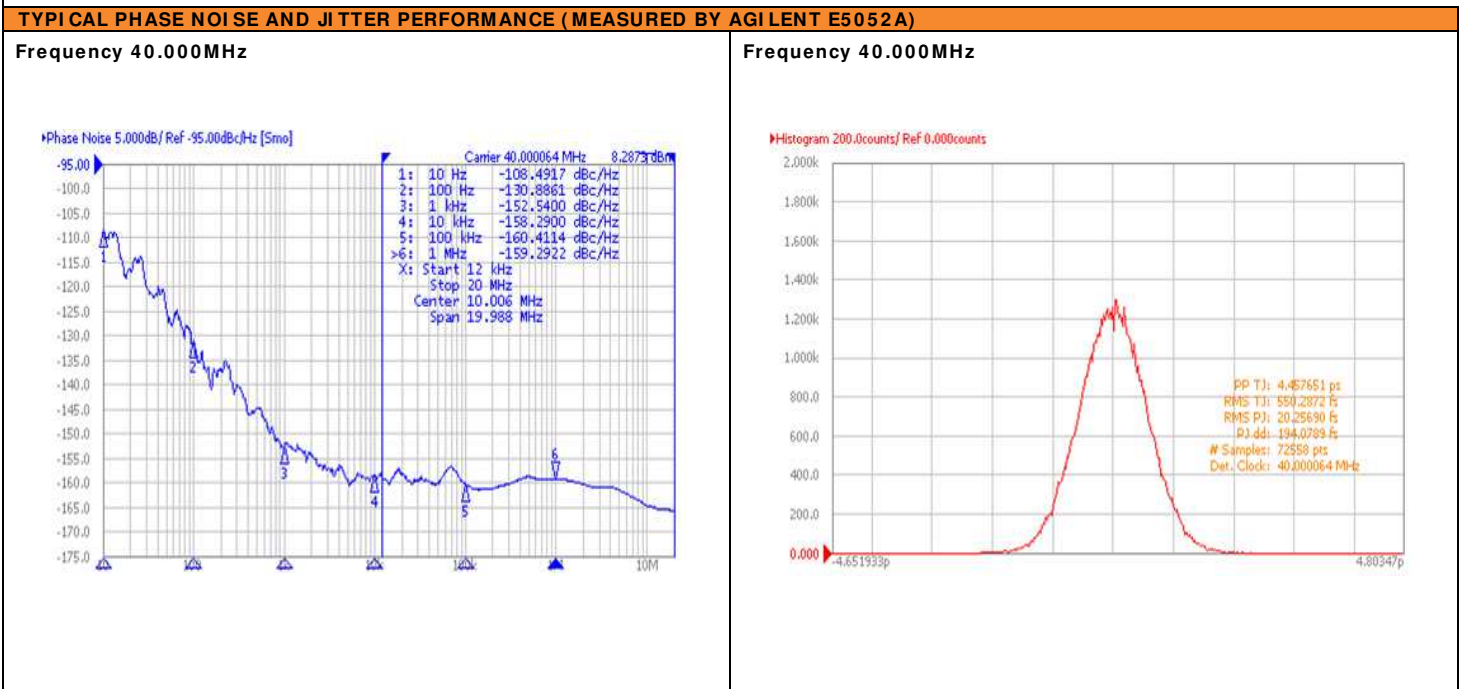
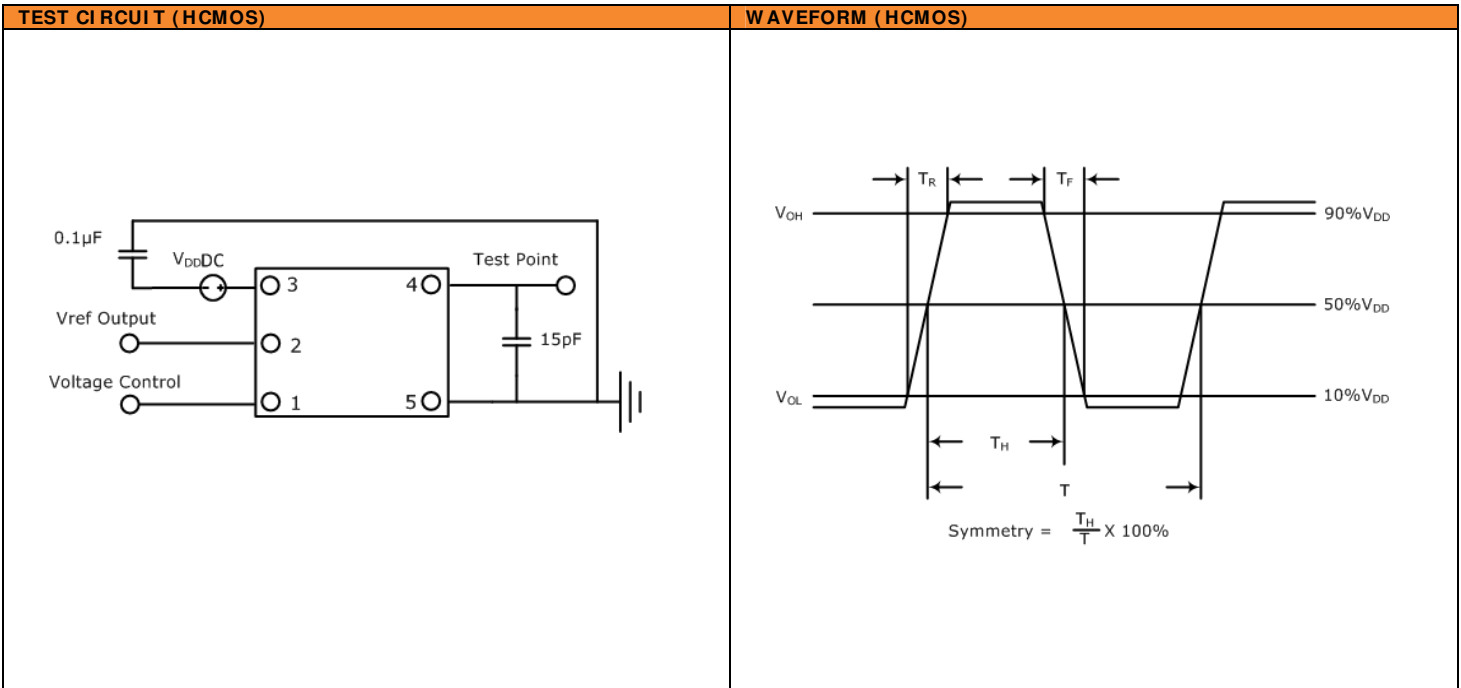
ELECTRICAL PARAMETERS		UNITS	MIN.	TYP.	MAX.	REMARKS
Frequency Range		MHz	5		100	
Frequency Tolerance at +25°C			-100		100	
Frequency Stability vs. Operating Temperature (Ref. 25°C)			-10		10	See part numbering guide for options.
vs. Supply Voltage		ppb	-2		2	V <sub>DD</sub> ±5% change.
vs. Load			-2		2	±10% change.
vs. Aging			-50		50	For year.
Operating Temperature		°C	-30		+70	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	
	9.0V Option		8.550	9.0	9.450	
	12.0V Option		11.40	12.0	12.60	
Power Consumption at Turn On		W			4.5	
Power Consumption at 25°C (Steady State)					1.5	
Control Voltage (V <sub>C</sub> )		V	0.0		5.0	
Control Middle Voltage				2.5		
Pullability		ppm	±3.0	±5.0	±8.0	AT-Cut.
Linearity		%	±0.5		±2.0	SC-Cut.
V <sub>C</sub> Input Impedance		kΩ	50		10	
Deviation Slope				Positive		
Output Load (HCMOS)		pF			15	
Output Logic Levels	Output Logic High (V <sub>OH</sub> )	V	0.9*V <sub>DD</sub>			
	Output Logic Low (V <sub>OL</sub> )				0.1*V <sub>DD</sub>	
Reference Voltage Output (V <sub>ref</sub> )		V	4.1		5	4.1V at V <sub>DD</sub> 5.0V, 5V at V <sub>DD</sub> 12V
Symmetry (Duty Cycle)		%	45	50	55	
Warm-Up Time		ppb	-100		100	At 25°C after 5 min.

### OUTLINE DRAWING



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

NOTE: Dimensions in millimeters (mm).



ENVIRONMENTAL & MECHANICAL SPECIFICATIONS	MARKING
Temperature Cycling	MIL-STD-883, Method 1010, Condition B
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
<p>Frequency in MHz</p> <p>Line 1: <math>\overline{X X . X X X}</math></p> <p>Line 2: <math>\overline{S F Y W W}</math></p> <p>Suntsu Manufacturing Identifier      Week Year</p>	