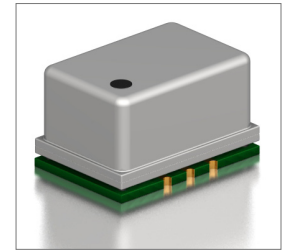
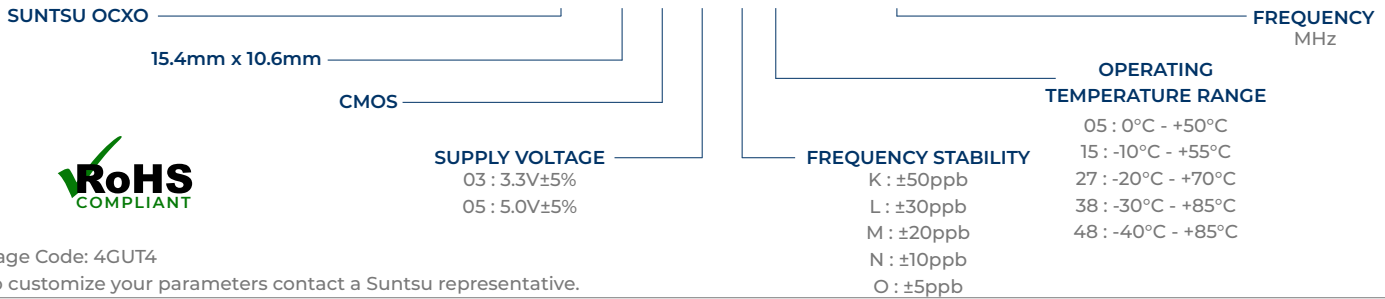


Features
<ul style="list-style-type: none"> ±5ppb (Frequency Stability) Available CMOS OCXO Small Package

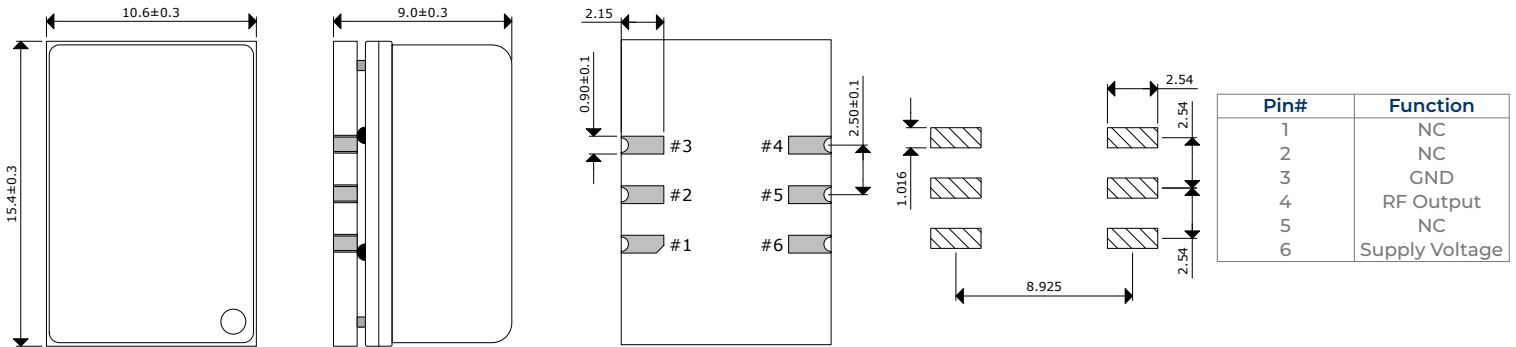
Applications
<ul style="list-style-type: none"> Military Communication Equipment Base Stations Test Equipment Synthesizers Digital Switching


Part Numbering Guide
SOC 15 C 03 K 15 - 10.000M


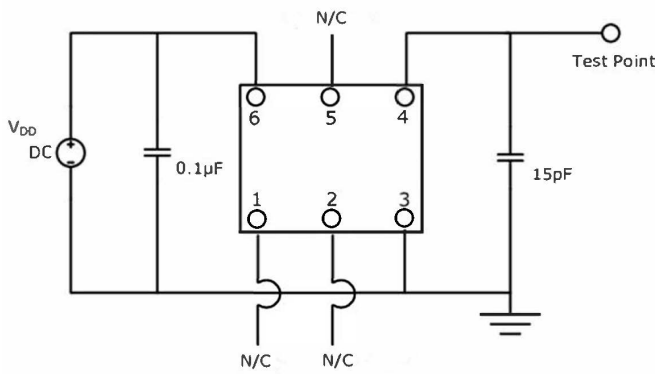
Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Range	MHz	10		20	
Frequency Tolerance at +25°C	ppm	-0.2		+0.2	
Freq. Stability vs. Op Temp.	ppb	-5		+5	See part numbering guide for options.
Freq. Stability vs. Supply Voltage	ppb	-2		+2	V _{DD} ±5% Change
Freq. Stability vs. Load	ppb	-2		+2	±5% Change
Freq. Stability vs. Aging/Day	ppb	-1		+1	
Freq. Stability vs. Aging/Year	ppm	-0.1		+0.1	
Operating Temperature	°C	-40		+85	See part numbering guide for options.
Storage Temperature	°C	-55		+105	
Supply Voltage (V _{DD}) - 3.3V Option	V	3.13	3.3	3.47	
Supply Voltage (V _{DD}) - 5.0V Option	V	4.75	5.0	5.25	
Power Consumption At Turn On	mA			700	
Power Consumption At 25°C	mA			300	
Output Logic (CMOS)	pF			15	
Output Logic Level - High (V _{OH})	V	2.4			
Output Logic Level - Low (V _{OL})	V			0.4	
Rise Time (T _R) And Fall Time (T _F)	ns			10	
Symmetry (Duty Cycle)	%	45	50	55	
Start-Up Time	ms			3	
Warm-Up Time	Mins		3		
Phase Noise (Typical) 10Hz Offset	dBc/Hz		-105	-95	
Phase Noise (Typical) 100Hz Offset	dBc/Hz		-130	-120	
Phase Noise (Typical) 1kHz Offset	dBc/Hz		-150	-140	
Phase Noise (Typical) 10kHz Offset	dBc/Hz		-150	-145	
Phase Noise (Typical) 100kHz Offset	dBc/Hz		-155	-150	
Phase Noise (Typical) 1MHz Offset	dBc/Hz		-155	-150	

Outline Drawing & Land Pattern

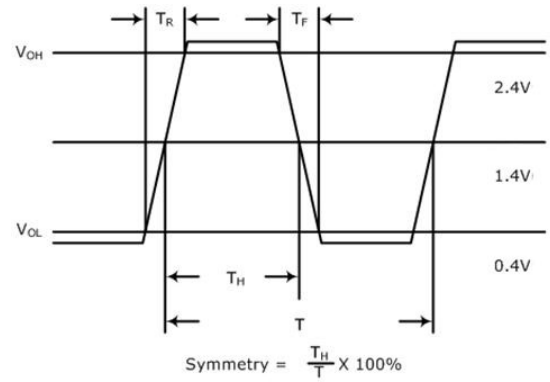
All dimensions are in millimeters (mm) unless otherwise noted. Drawings are not to scale.



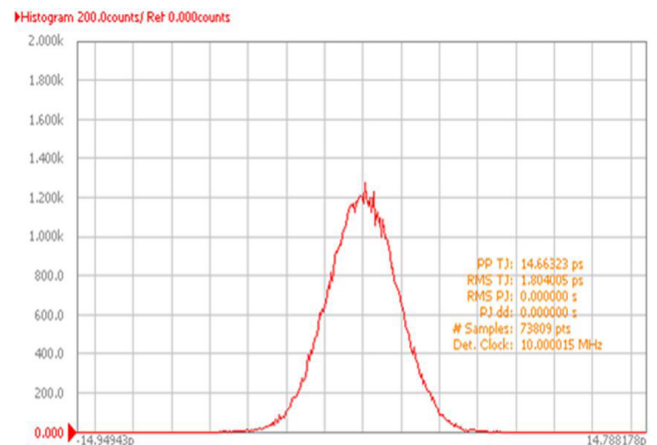
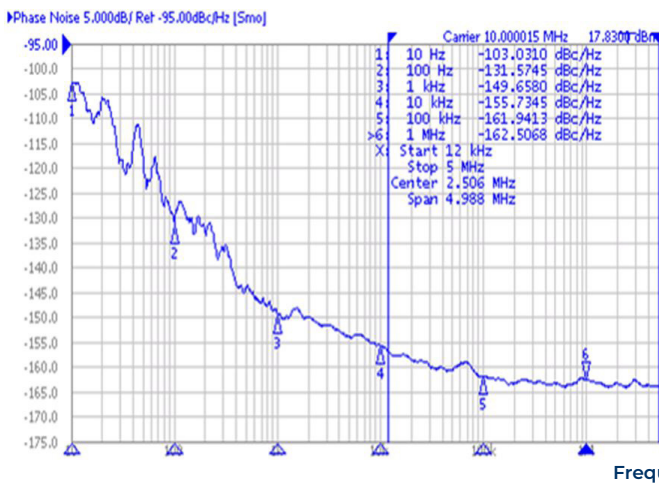
Test Circuit (CMOS)



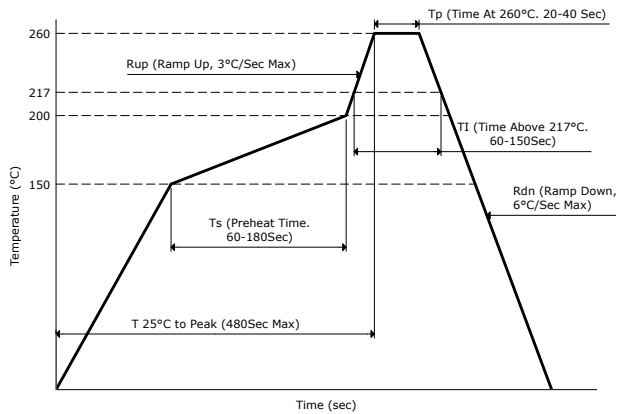
Waveform (CMOS)



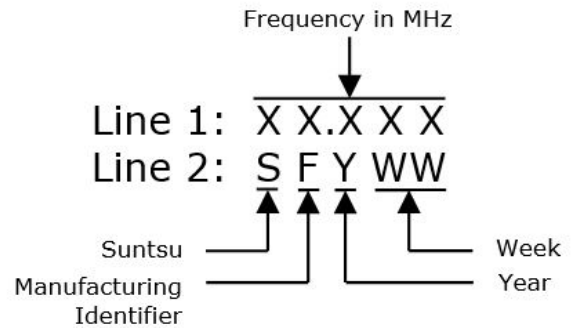
Typical Phase Noise And Jitter Performance (Measured By Agilent E5052A)



Reflow Profile



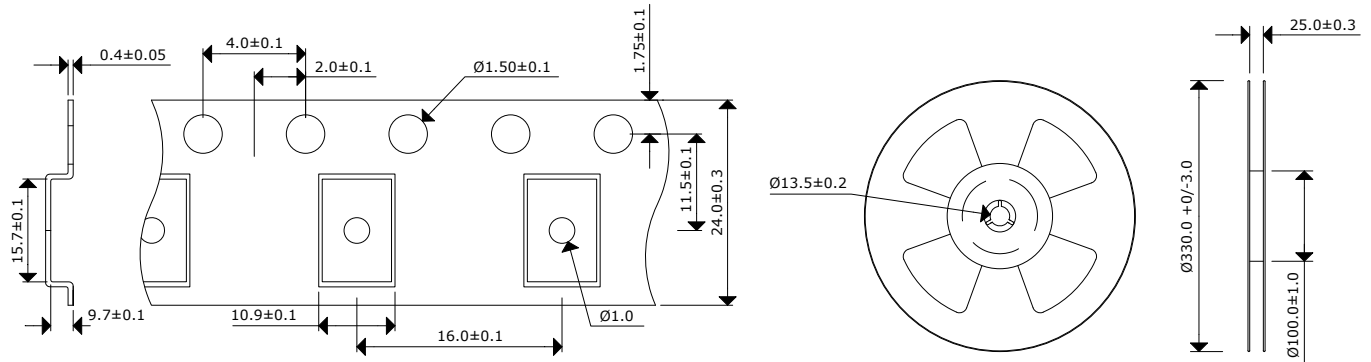
Part Marking



Tape And Reel Dimensions

350pcs/Reel

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



Environmental & 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 2004	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
Vibration	Test Condition: 0.75 ;acceleration:10g;10Hz-500Hz, one cycle per 30min, test 2 hour. (3 times for each of the 3 directions X, Y& Z) IEC 68-2-06 Test FC		