

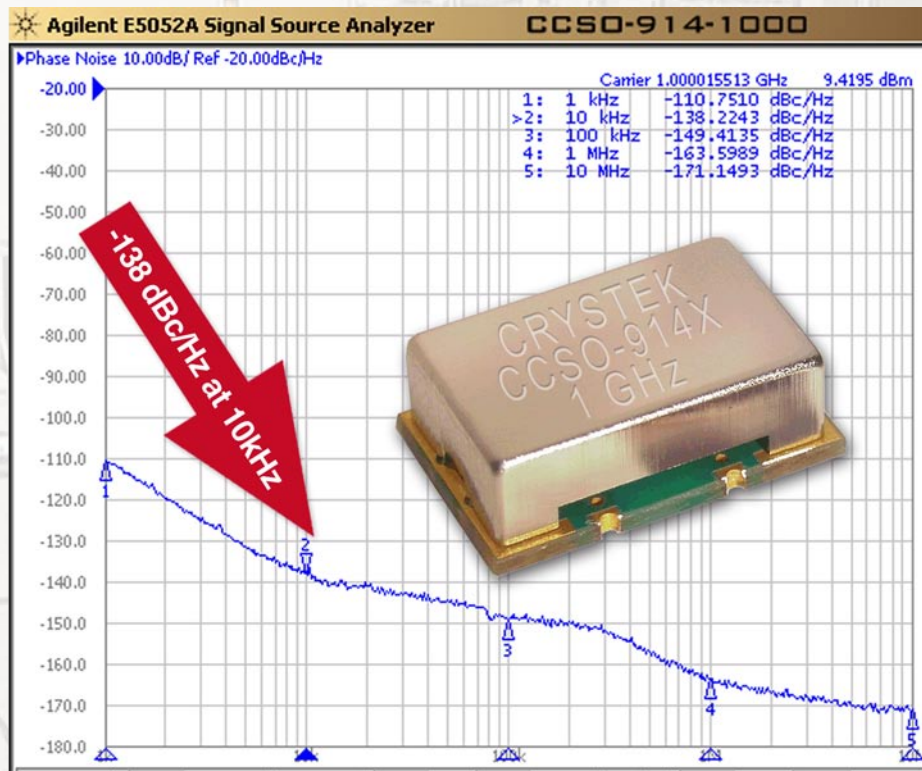


CRYSTEK
CRYSTALS
A DIVISION OF CRYSTEK CORPORATION

CCSO-914X-1000
TRUE SINEWAVE
SAW BASED CLOCK OSC
9X14MM SMD
5 VOLT



Ultra-Low Phase Noise 1GHz SAW Clock



Model CCSO-914-1000 is a 1GHz SAW (surface acoustic wave) Clock Oscillator (CCSO). SAW crystal technology provides low-noise and low-jitter performance with true sinewave output. Features include -138dBc/Hz phase noise at 10kHz offset, 5V input voltage, -40 to +85C operating temperature, FR5 PCB and 9x14 mm SMT package. The oscillator has no sub-harmonic and the second harmonic is typically -20dBc.

Applications include:

System Clock for Network Clock Generator/Synchronizer, Clock for DDS, Test and Measurement, Avionics, Point-to-Point Radios, and Multi-point Radios.



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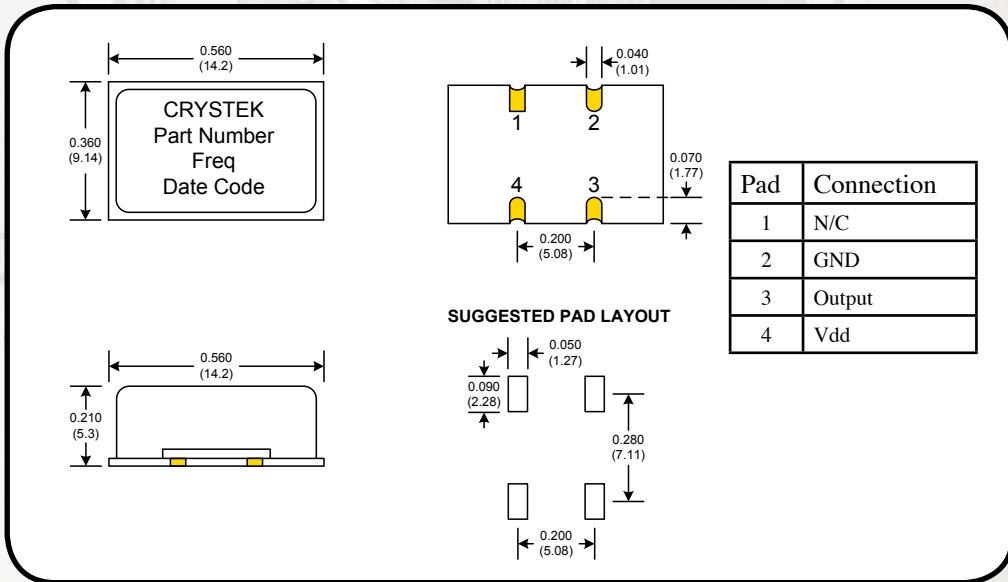


Frequency : 1 GHz
Temperature Range: -40°C to 85°C
Storage: -45°C to 90°C
Input Voltage: 5.0V ± 0.25V

Freq. vs Temp. ±100ppm Typ.
Input Current: 25mA Typ., 35mA Max
Output: True SineWave
Output Power: +8dBm Min. into 50 Ohm Load
Start-up time: 2ms Typ., 10ms Max
2nd Harmonic: -20dBc Typ., -15dBc Max
Sub-harmonics: None
Modulation BW: >20KHz @ -3dB
Jitter:
 SONET OC-48(12KHz~80MHz) 0.18ps RMS Typ., 0.20ps RMS Max
 SONET OC-192(50KHz~80MHz) 0.12ps RMS Typ., 0.15ps RMS Max

Phase Noise Typical:

1KHz -110 dBc/Hz
 10KHz -138 dBc/Hz
 100KHz -150 dBc/Hz
 1MHz -160 dBc/Hz
 10MHz -170 dBc/Hz

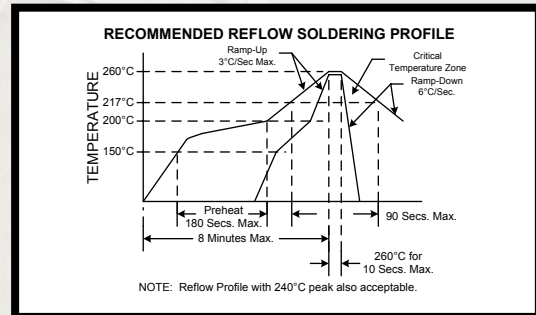
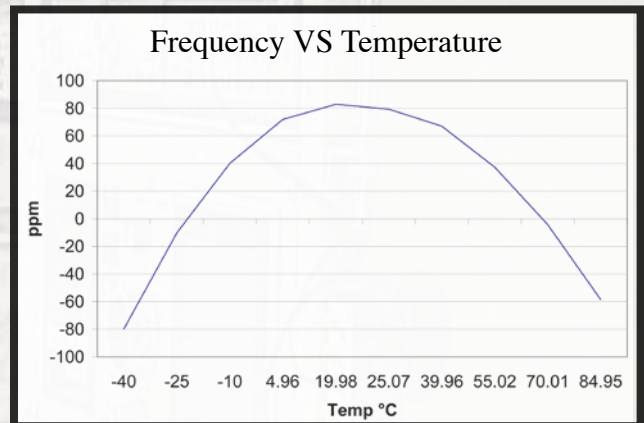
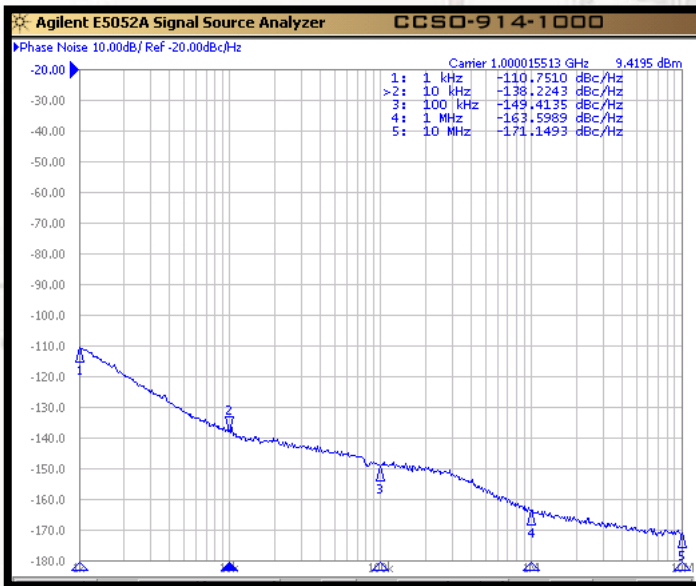


Pad	Connection
1	N/C
2	GND
3	Output
4	Vdd



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Parameter	Conditions
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Mechanical Vibration	MIL-STD-883, Method 2007, Condition A
Solderability	MIL-STD-883, Method 2003
Solvent Resistance	MIL-STD-202, Method 215
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition I or J
Thermal Shock	MIL-STD-883, Method 1011, Condition A
Moisture Resistance	MIL-STD-883, Method 1004



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