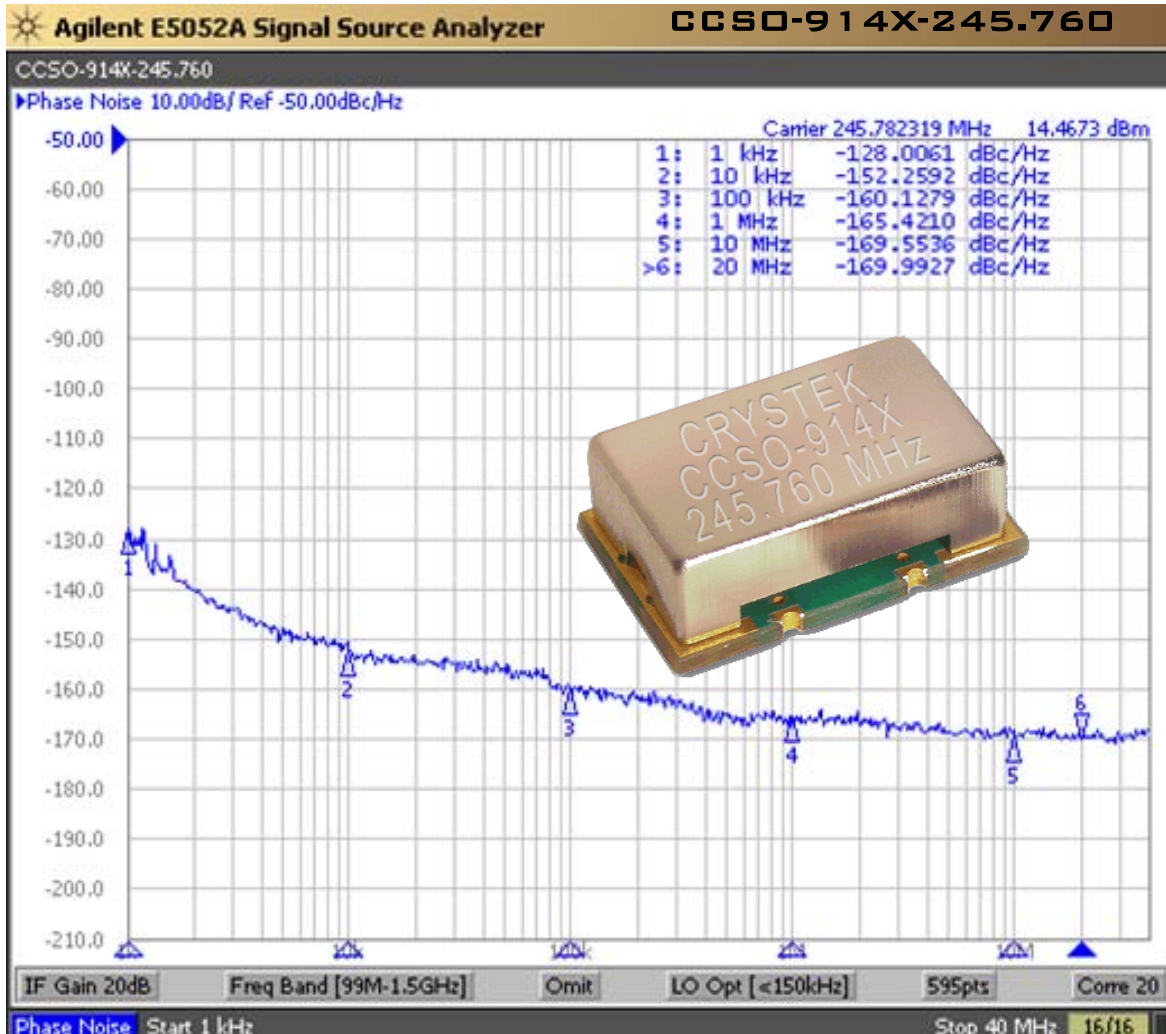


Ultra-Low Phase Noise 245.760 MHz SAW Clock



Model CCSO-914X-245.760 is a 245.760 MHz SAW (surface acoustic wave) Clock Oscillator (CCSO). SAW crystal technology provides low-noise and low-jitter performance with true sinewave output. Features include -150 dBc/Hz phase noise at 10kHz offset, 5V input voltage, -40°C to +85°C operating temperature, FR5 PCB and 9×14 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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CCSO-914X-245.760
True SineWave
SAW Based Clock Oscillator
9x14mm SMD
5 Volt



Frequency: 245.760 MHz
Temperature Range: -40°C to +85°C
Storage: -45°C to 90°C
Input Voltage: 5.0V ± 0.25V

Frequency vs Temperature: ±150ppm Typical
Input Current: 25mA Typical, 35mA Max
Output: True SineWave
Output Power: +8dBm Min into 50 Ω Load
Start-Up Time: 2mSec Typical, 10mSec Max
2nd Harmonic: -20dBc Typical, -15dBc Max
Sub-Harmonics: None

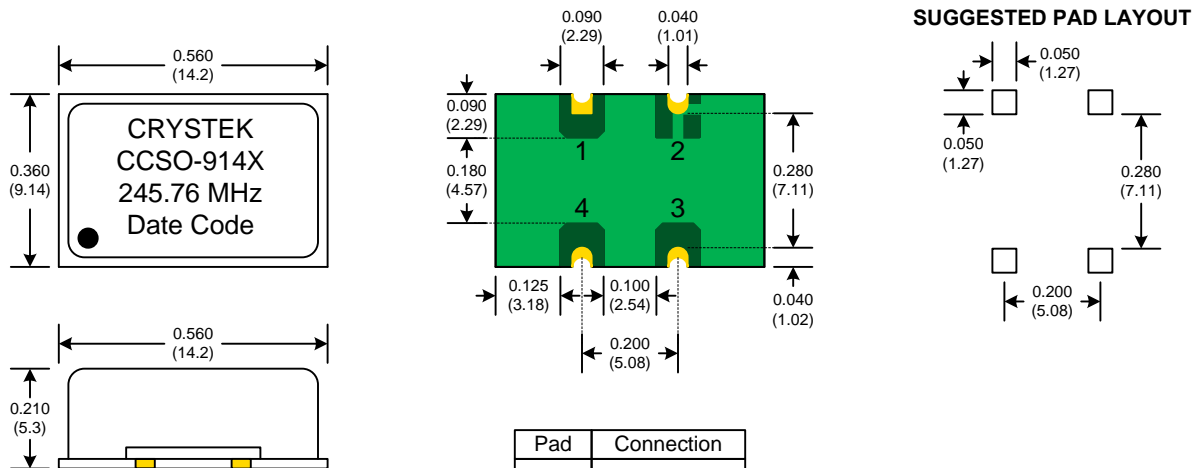


Jitter:
SONET OC-48(12kHz~80MHz) 17fS RMS Typical

Phase Noise Typical:

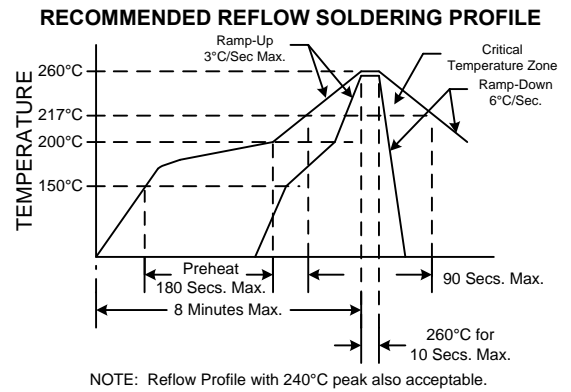
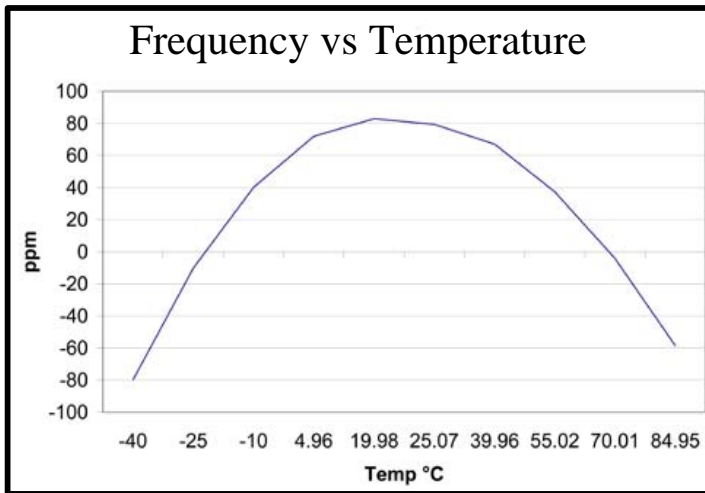
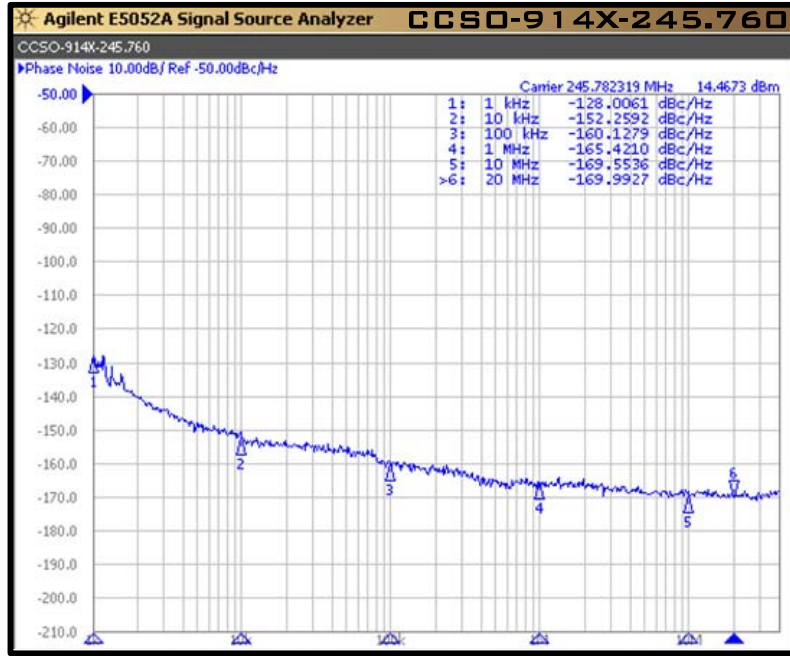
| | |
|--------|-------------|
| 1kHz | -130 dBc/Hz |
| 10kHz | -150 dBc/Hz |
| 100kHz | -160 dBc/Hz |
| 1MHz | -165 dBc/Hz |
| 10MHz | -170 dBc/Hz |

G-sensitivity: 0.9×10⁻⁹ per g



| 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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