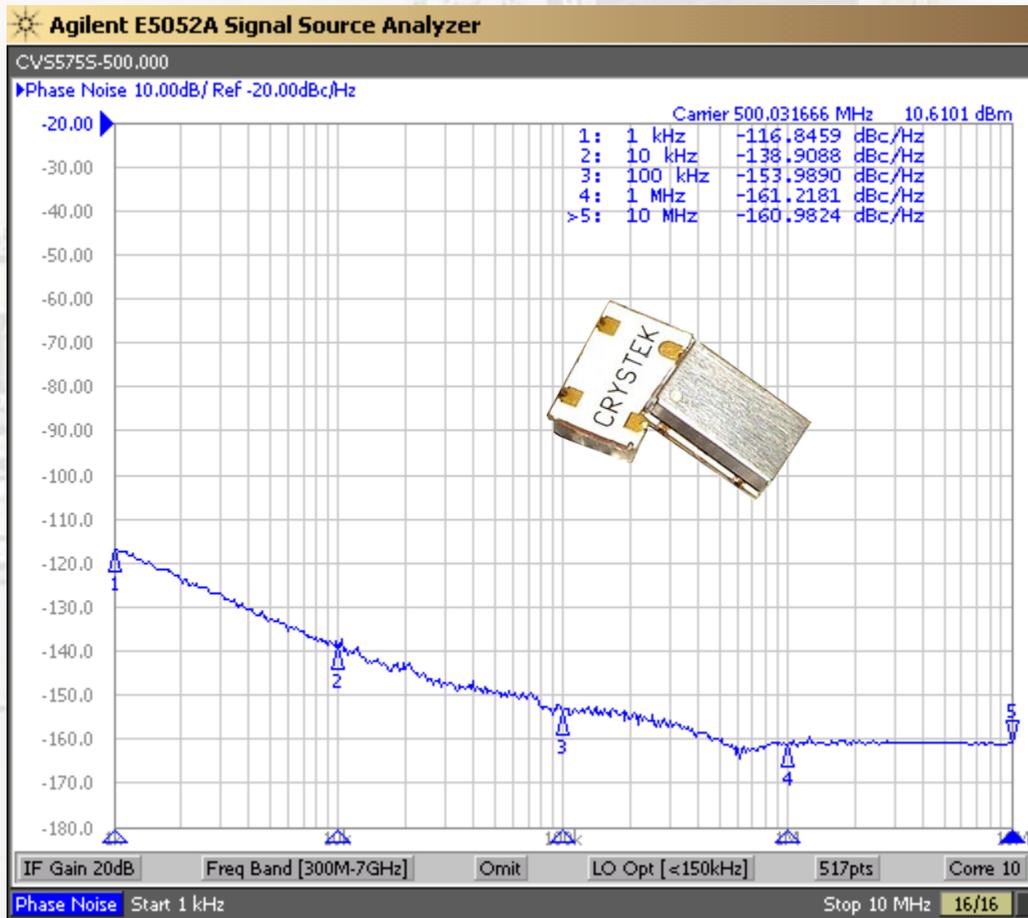




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CRYSTALS
A DIVISION OF CRYSTEK CORPORATION

CVS575S-500.000
TRUE SINEWAVE
SAW BASED VCISO
5x7.5mm SMD
3.3 Volts



Model CVS575S-500 is a 500MHz voltage-controlled SAW (surface acoustic wave) oscillator (VCISO). SAW crystal technology provides low-noise and low-jitter performance with true sinewave output. Features include -135dBc/Hz phase noise at 10kHz offset, 3.3V input voltage, -20 to +70C operating temperature, and 5x7.5 mm SMT package. The oscillator has no sub-harmonic and the second harmonic is typically -14dBc.

Applications include PLL frequency translation, test and measurement, avionics, point-to-point radios, and multi-point radios.



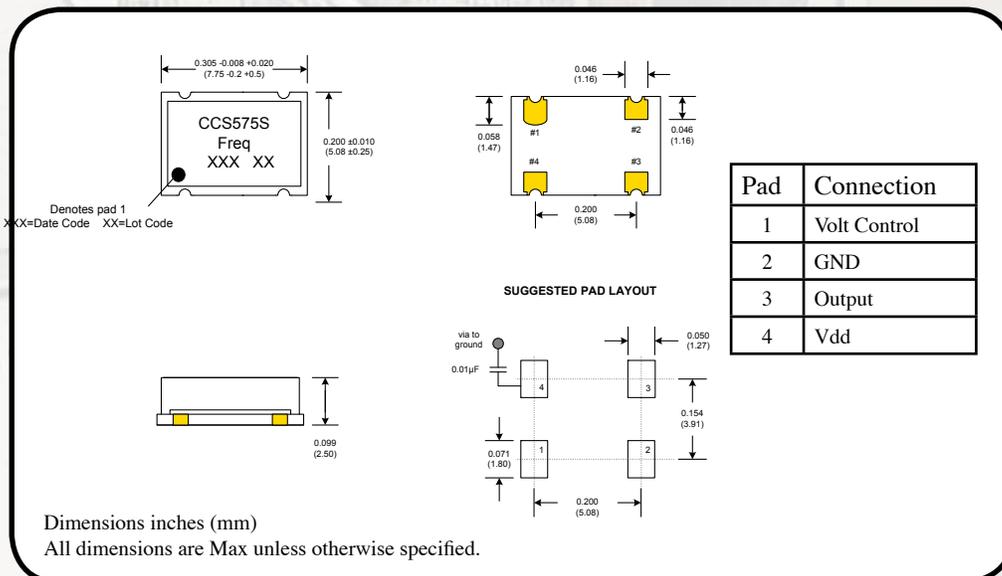
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3.3 Volts



Frequency: 500 MHz
Temperature Range: -20°C to 70°C
Storage: -40°C to 90°C
Input Voltage: 3.3V ± 0.15V
Control Voltage: 1.65V ± 1.65V
Settability At Nominal (25°C): 1.5V ± 0.5V
Freq. vs Temp. +100ppm, -150ppm Typ.
Input Current: 20mA Typ., 25mA Max

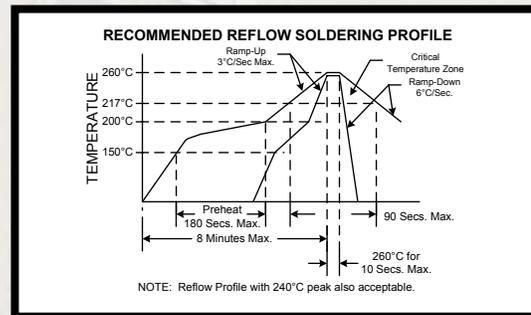
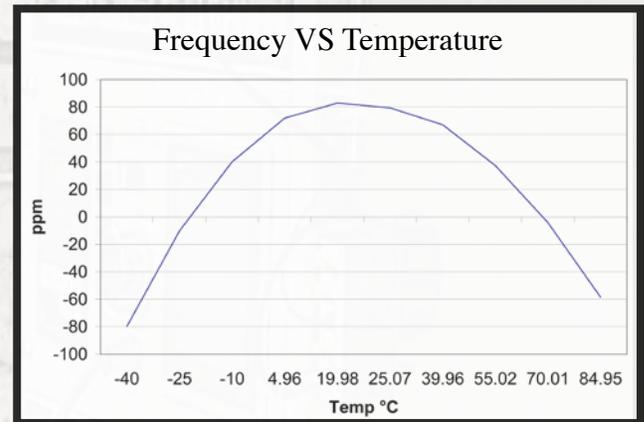
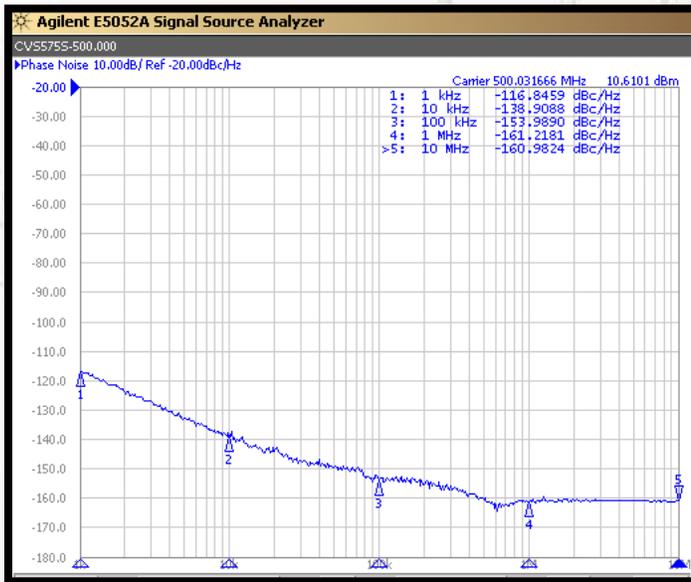
Output: True Sine Wave
Pullability APR: ±50ppm Min.
Linearity: ±20% Max
Output Power: +7dBm Min. into 50 Ohm Load
Start-up time: 2ms Typ., 10ms Max
2nd Harmonic: -14dBc Typ., -10dBc Max
Sub-harmonics: None
Modulation BW: >20KHz @ -3dB
Phase Jitter: 12KHz~80MHz <1ps RMS (1-sigma) Max





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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