



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

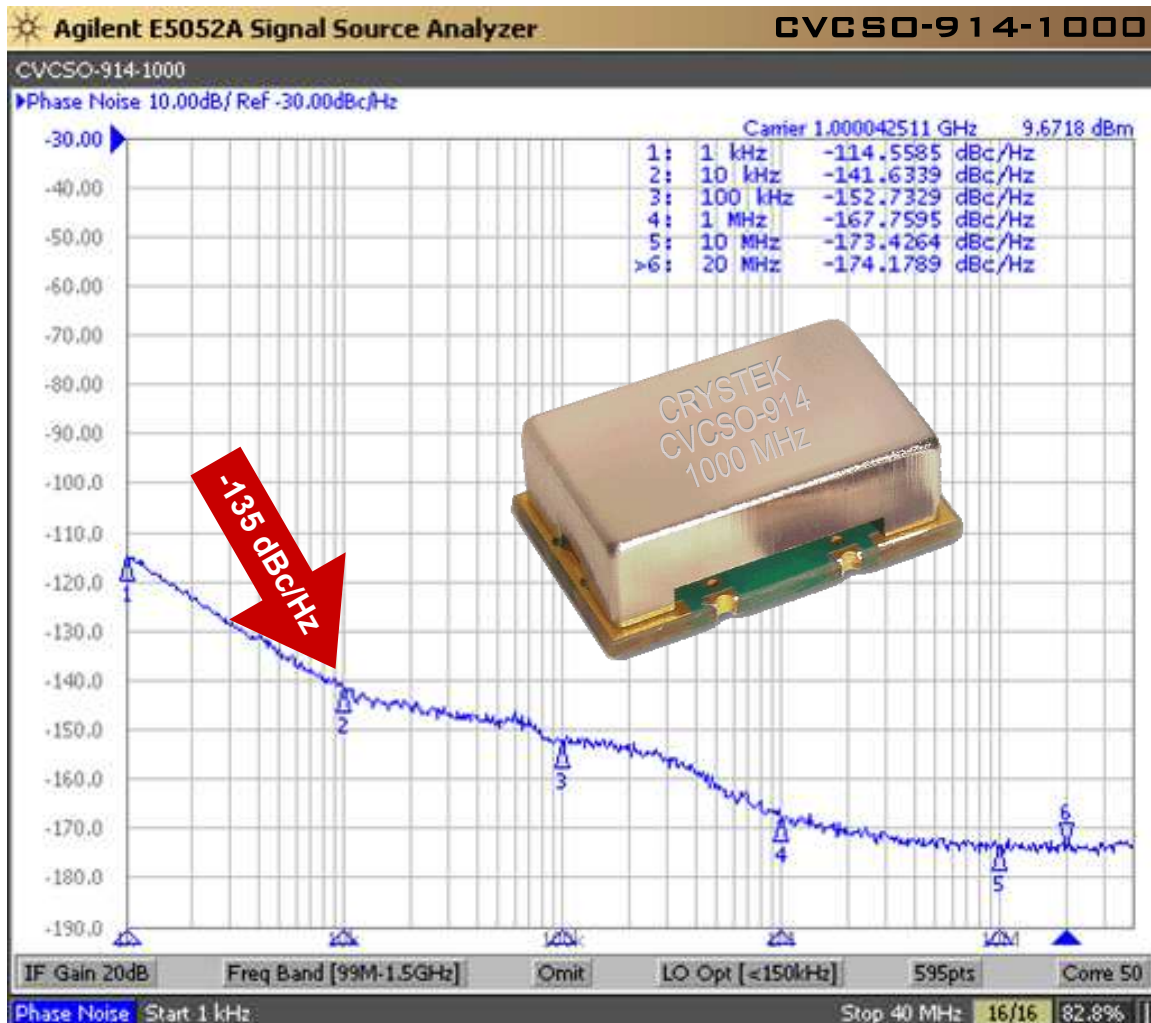
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Ultra-Low Phase Noise 1GHz SAW VCSO



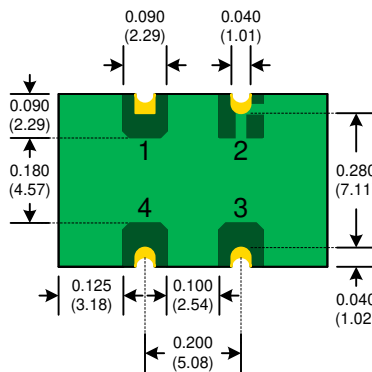
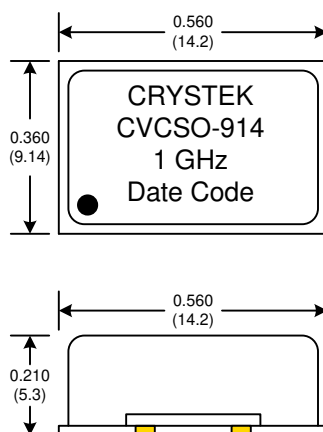
Model CVCSO-914-1000 is a 1 GHz voltage-controlled SAW (surface acoustic wave) Clock Oscillator (VCSO). SAW crystal technology provides low-noise and low-jitter performance with true sinewave output. Features include -135 dBc/Hz phase noise at 10 kHz offset, 5V input voltage, -20°C to +70°C operating temperature, and 9×14 mm SMT package. The oscillator has no sub-harmonic and the second harmonic is typically -20 dBc.

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

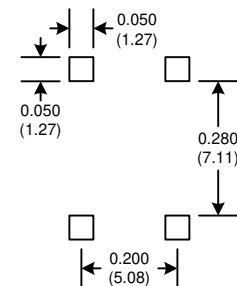
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Frequency:	1 GHz
Temperature Range:	-20°C to +70°C
Storage:	-40°C to 90°C
Input Voltage:	5.0V ±0.25V
Control Voltage:	2.5V ±2.5V
Settability At Nominal (25°C):	1.5V ±0.5V
Tuning Sensitivity (Kv):	+120ppm/V
Frequency vs Temperature:	±100ppm Typical
Input Current:	25mA Typical, 35mA Max
Output:	True SineWave
Pullability APR:	±50ppm Min
Linearity:	±20% Max
Output Power:	+10dBm Min into 50 Ω Load
Start-Up Time:	2mSec Typical, 10mSec Max
2nd Harmonic:	-20dBc Typical, -15dBc Max
Sub-Harmonics:	None
Modulation BW:	>20kHz @ -3dB
Phase Jitter: 12kHz~80MHz	<1ps RMS (1-sigma) Max
G-sensitivity:	0.9×10⁻⁹ per g

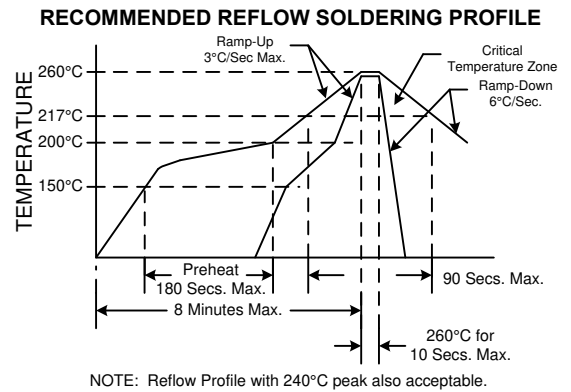
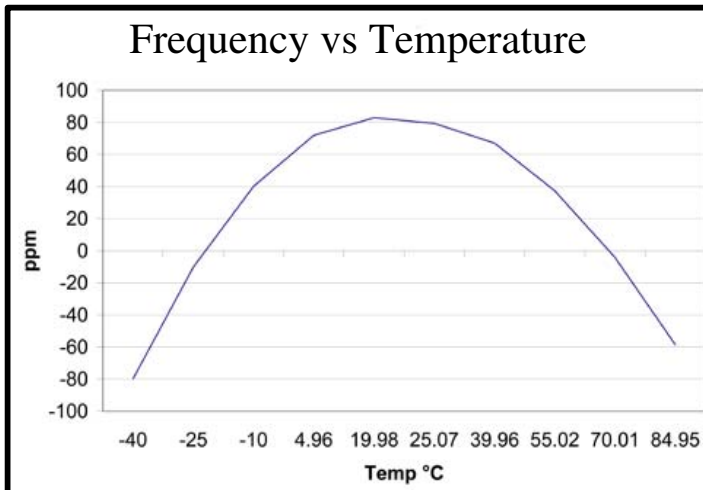
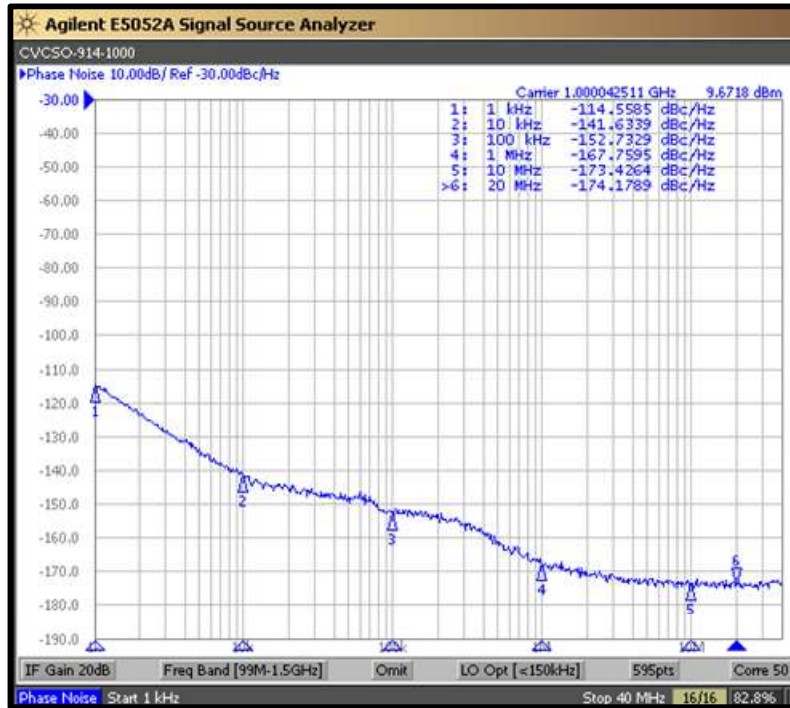


SUGGESTED PAD LAYOUT



Pad	Connection
1	Volt. Control
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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