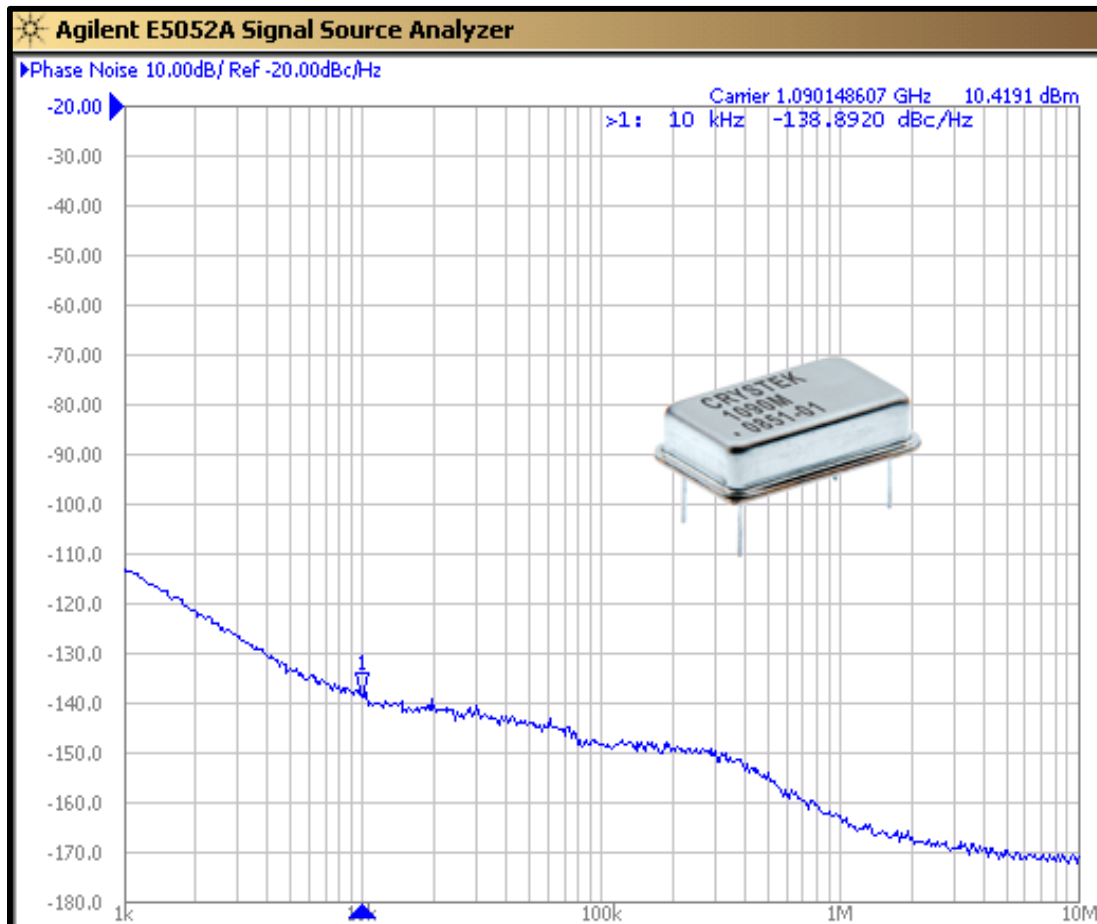


CCSO-014-1090 Model
14 Pin DIP, 12V, True Sinewave



Model CCSO-014-1090 is a 1.090GHz 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, +12V input voltage, -55°C to +105°C operating temperature, 14 PIN DIP hermetic sealed package. The oscillator has no sub-harmonic and the second harmonic is -35dBc Max.

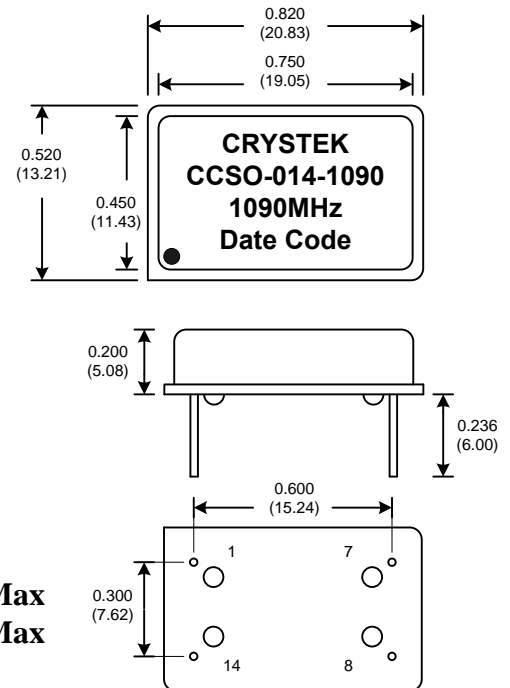
Designed for Identification Friend or Foe (IFF) application.

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CCSO-014-1090 Model
14 Pin DIP, 12V, True Sinewave



Frequency:	1.090 GHz
Temperature Range:	-55°C to 105°C
Storage:	-55°C to 110°C
Input Voltage:	12.0V ±0.25V
Supply Ripple:	150mV p-p Max
Freq. vs Temp.:	±250ppm Typical
Input Current:	30mA Typ., 40mA Max
Output:	True SineWave
Output Power:	+12dBm ±2dBm
Start-up time:	2ms Typ., 10ms Max
2nd Harmonic:	-40dBc Typ., -35dBc Max
Sub-harmonics:	None
Load:	50 Ω
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



PIN	Connection
1	N/C
7	GND
8	Output
14	Vdd

Parameter	Conditions
Mechanical Shock	MIL-STD-202, Method 213, Condition A
Mechanical Vibration	MIL-STD-202, Method 204, Condition A
Solderability	MIL-STD-202, Method 208
Solvent Resistance	MIL-STD-202, Method 215
Resistance to Soldering Heat	MIL-STD-202, Method 210, Condition C
Thermal Shock	MIL-STD-202, Method 107, Condition A
Moisture Resistance	MIL-STD-202, Method 106, 90% to 98% RH 10 Days
Terminal Strength	MIL-STD-202, Method 211, Condition A
Hermetic Seal	MIL-STD-202, Method 112, Procedure III, Condition C
Humidity	MIL-STD-202, Method 103
High Temperature Life (Operating)	MIL-STD-202, Method 108, Condition D, 1,000 hrs at +70°C
Acceleration	MIL-STD-202, Method 212, Condition A

Parameter	Conditions
100% Temperature Testing	10°C Steps -55/105°C
100% Start-Up Testing	-55°C and +85°C

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