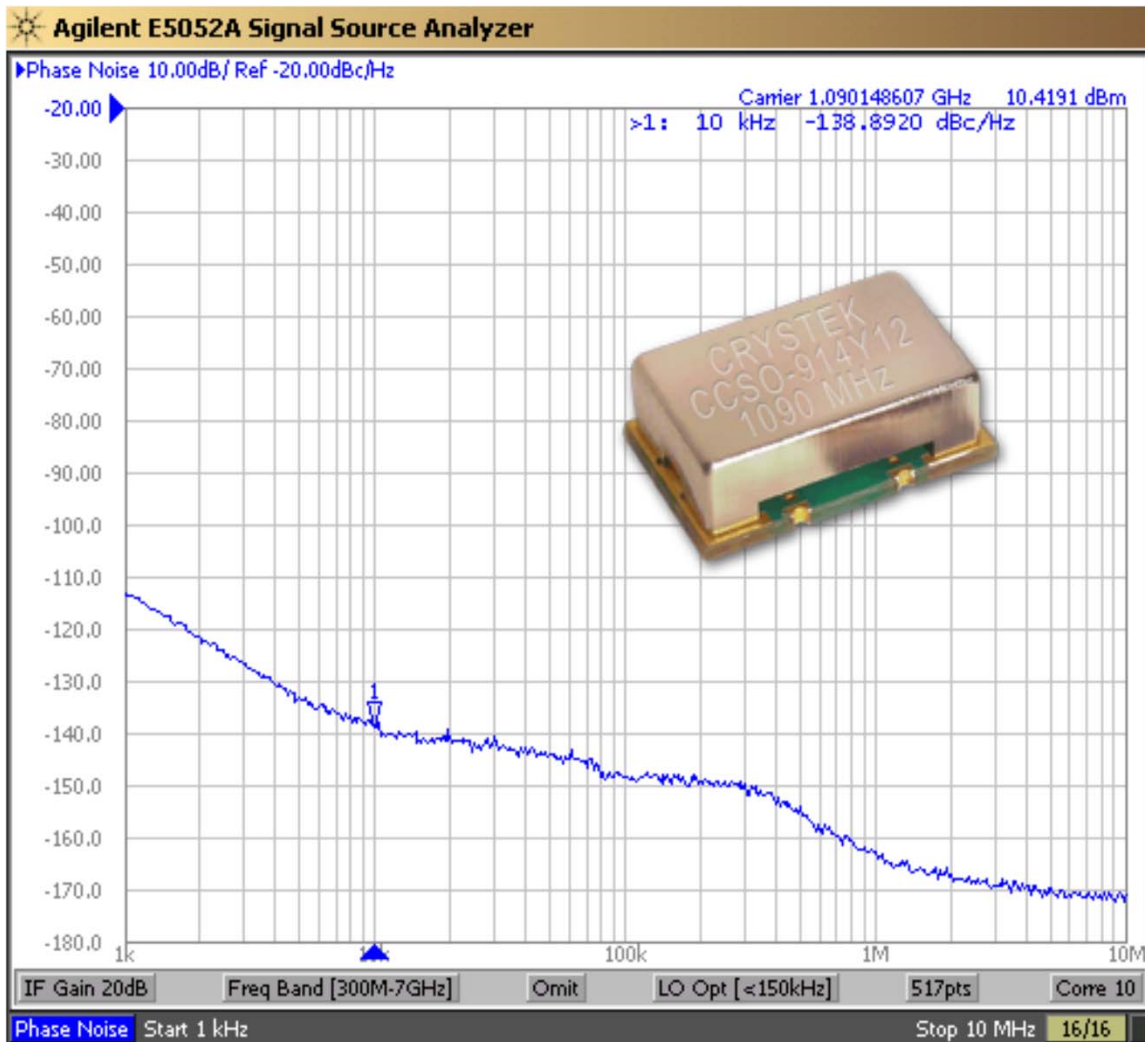


Ultra-Low Phase Noise 1090MHz SAW Clock



Model CCSO-914Y12-1090 is a 1090 MHz 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, FR5 PCB and 9×14 mm SMT package. The oscillator has no sub-harmonic and the second harmonic is typically -20dBc.

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Frequency: 1090 MHz
Temperature Range: -55°C to +105°C
Storage: -55°C to 110°C
Input Voltage: 12.0V ± 0.25V

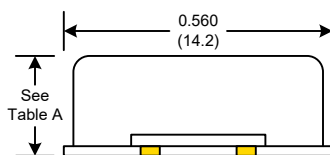
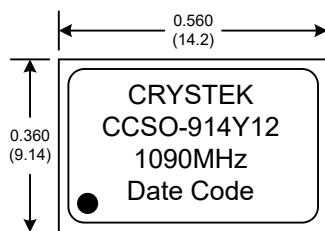
Frequency vs Temperature: ±250ppm Max
Input Current: 30mA Typical, 40mA Max
Output: True SineWave
Output Power: +12dBm ±2dB into 50 ohm Load
Start-Up Time: 2mSec Typical, 10mSec Max
2nd Harmonic: -20dBc Typical, -15dBc Max
Sub-Harmonics: None



Phase Noise Typical:

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

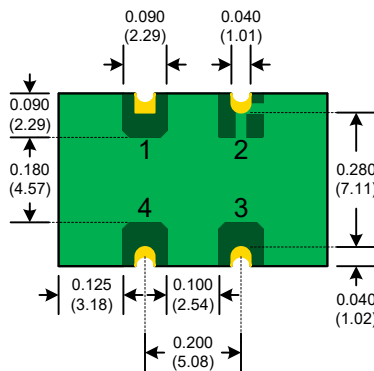
G-sensitivity: 0.9×10⁻⁹ per g



Package Height Options

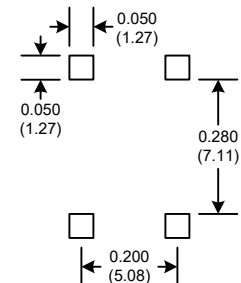
	inches	mm
Standard	0.210	5.33
Option L	0.135	3.43

Table A



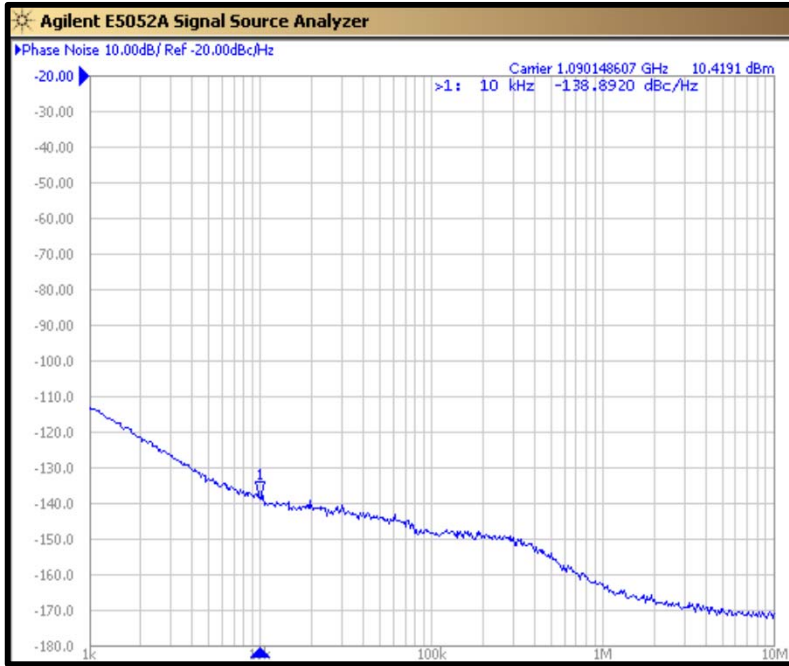
Pad	Connection
1	N/C
2	GND
3	Output
4	Vdd

SUGGESTED PAD LAYOUT



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CCSO-914Y12-1090
True SineWave
SAW Based Clock Oscillator
9×14mm SMD
12 Volt

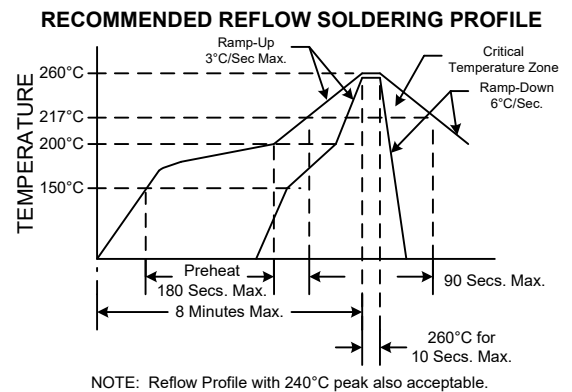
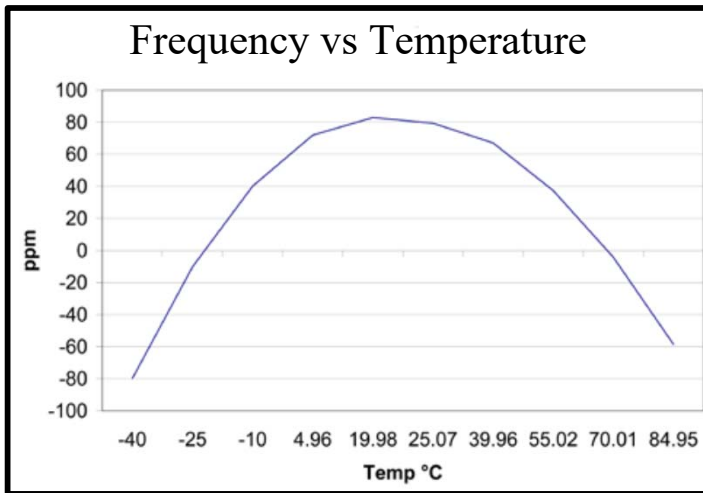


Crystek Part Number Guide

CCSO - 914Y12 L - 1090

#1 #2 #3

#1 Crystek Saw Oscillator
#2 Model 914Y12 with -55/105°C Temperature Range
#3 Height (L = 0.135") (Blank = 0.210")



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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