



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!



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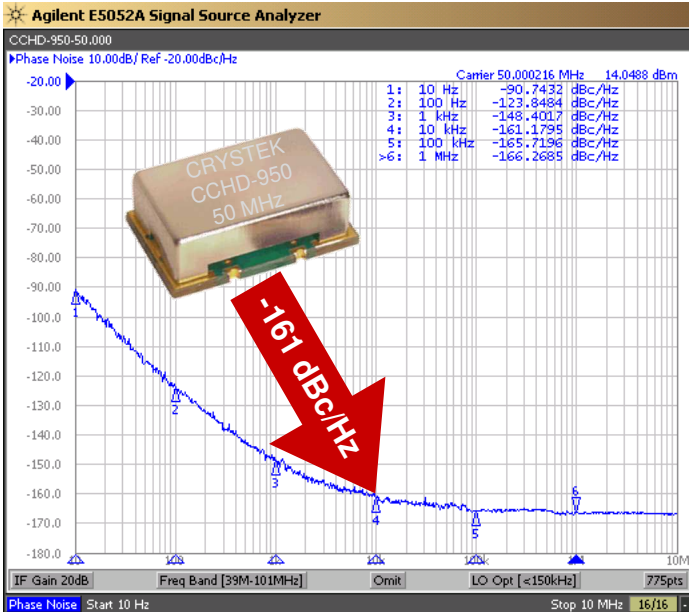
CCHD-950

Ultra-Low Phase Noise Oscillator

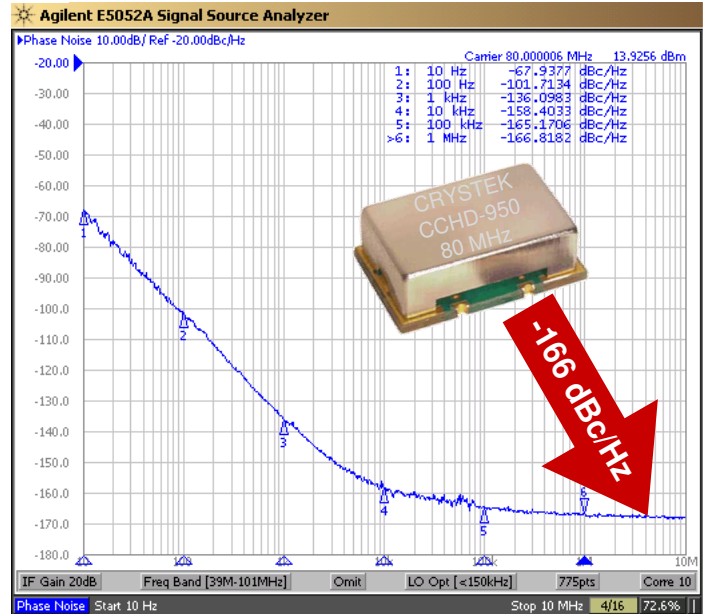


CCHD-950 Model
9x14 mm SMD, 3.3V, HCMOS

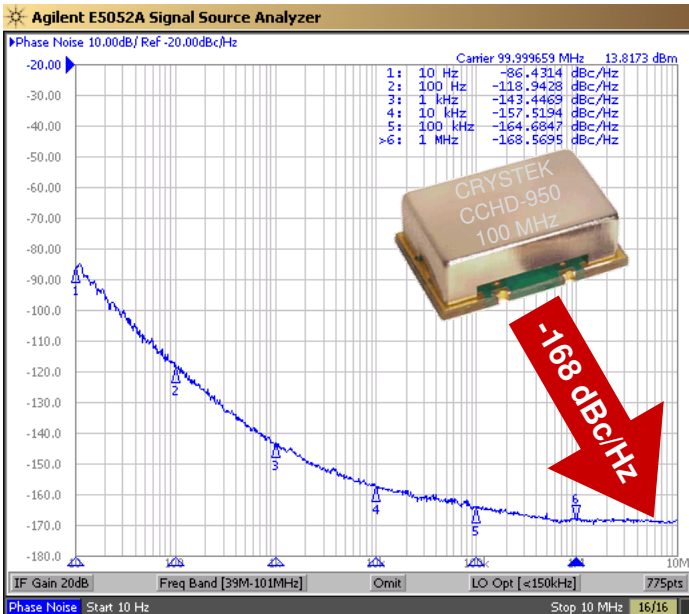
50 MHz HCMOS 3.3V



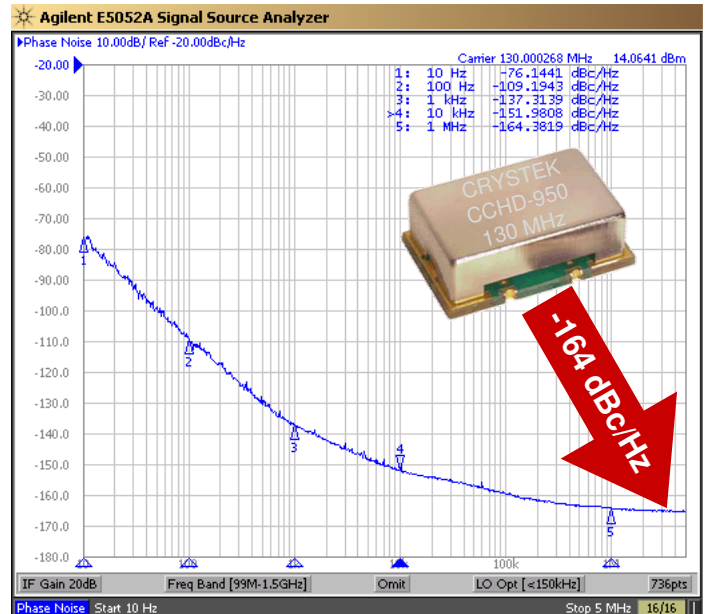
80 MHz HCMOS 3.3V



100 MHz HCMOS 3.3V



130 MHz HCMOS 3.3V



Model CCHD-950 is a 45 MHz to 130 MHz HCMOS Clock Oscillator. High Q crystal and 3rd overtone technology provides Ultra-Low Phase Noise and Low-Jitter performance with an HCMOS output. Features include -165 dBc/Hz phase noise floor with 3.3 Vdc input voltage, -40°C to +85°C operating temperature, and 9x14 mm SMT package. The oscillator has no sub-harmonics.

Applications include High Definition TV, Avionics
Low Phase Signal Sources, and Test and Measurement.

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CCHD-950

Ultra-Low Phase Noise Oscillator



CCHD-950 Model

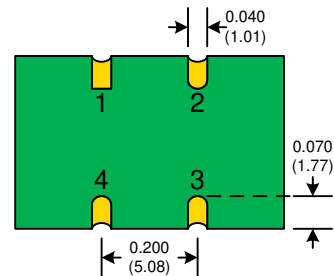
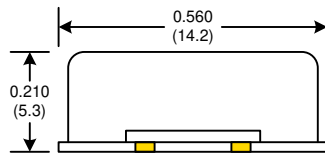
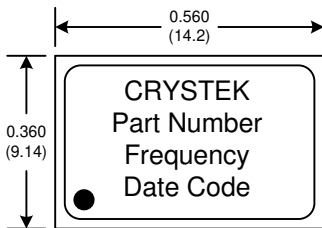
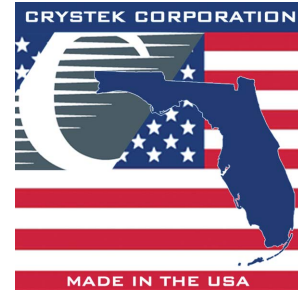
9x14 mm SMD, 3.3V, HCMOS

Frequency Range: 45 MHz to 130 MHz
Temperature Range: 0°C to +70°C
 (Option M) -20°C to +70°C
 (Option X) -40°C to +85°C
Storage: -45°C to 90°C
Input Voltage: 3.3V ±0.3V
Input Current: 15mA Typical, 25mA Max
Output: HCMOS
Symmetry: 45/55% Max @ 50% Vdd
Rise/Fall Time: 3nsec Max @ 20% to 80% Vdd
Logic: "0" = 10% Vdd Max
 "1" = 90% Vdd Min
Load: 15pF
Output Current: ±24mA Max
Jitter: 12kHz~80MHz 0.5psec Typical, 1psec RMS Max
Phase Noise Typical: See plots
Phase Noise Floor: -165dBc/Hz Typical, -160dBc/Hz Max
Sub-harmonics: None
Aging: <3ppm 1st year, <1ppm thereafter

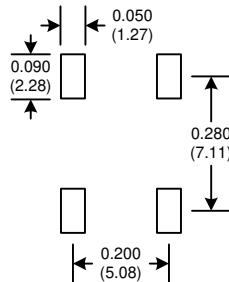
CCHD-950 Options:
Temperature Range: 0°C to +70°C (±20ppm, ±25ppm, ±50ppm)
 -20°C to +70°C (±25ppm, ±50ppm)
 -40°C to +85°C (±25ppm, ±50ppm)

Part Number Example:
 CCHD-950X-25-100.000 = 3.3V, 45/55, -40°C to +85°C (±25ppm), 100 MHz

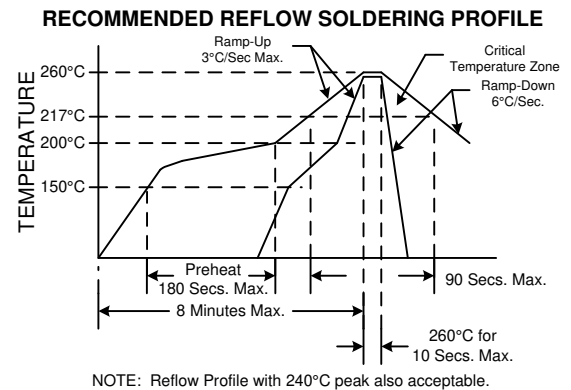
Mechanical:	
Shock:	MIL-STD-883, Method 2002, Condition B
Solderability:	MIL-STD-883, Method 2003
Vibration:	MIL-STD-883, Method 2007, Condition A
Solvent Resistance:	MIL-STD-202, Method 215
Resistance to Soldering Heat:	MIL-STD-202, Method 210, Condition I or J
Environmental:	
Thermal Shock:	MIL-STD-883, Method 1011, Condition A
Moisture Resistance:	MIL-STD-883, Method 1004



SUGGESTED PAD LAYOUT



Pad	Connection
1	NC
2	GND
3	OUT
4	Vdd



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