



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!



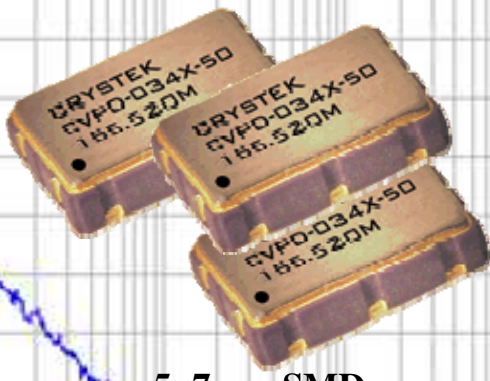
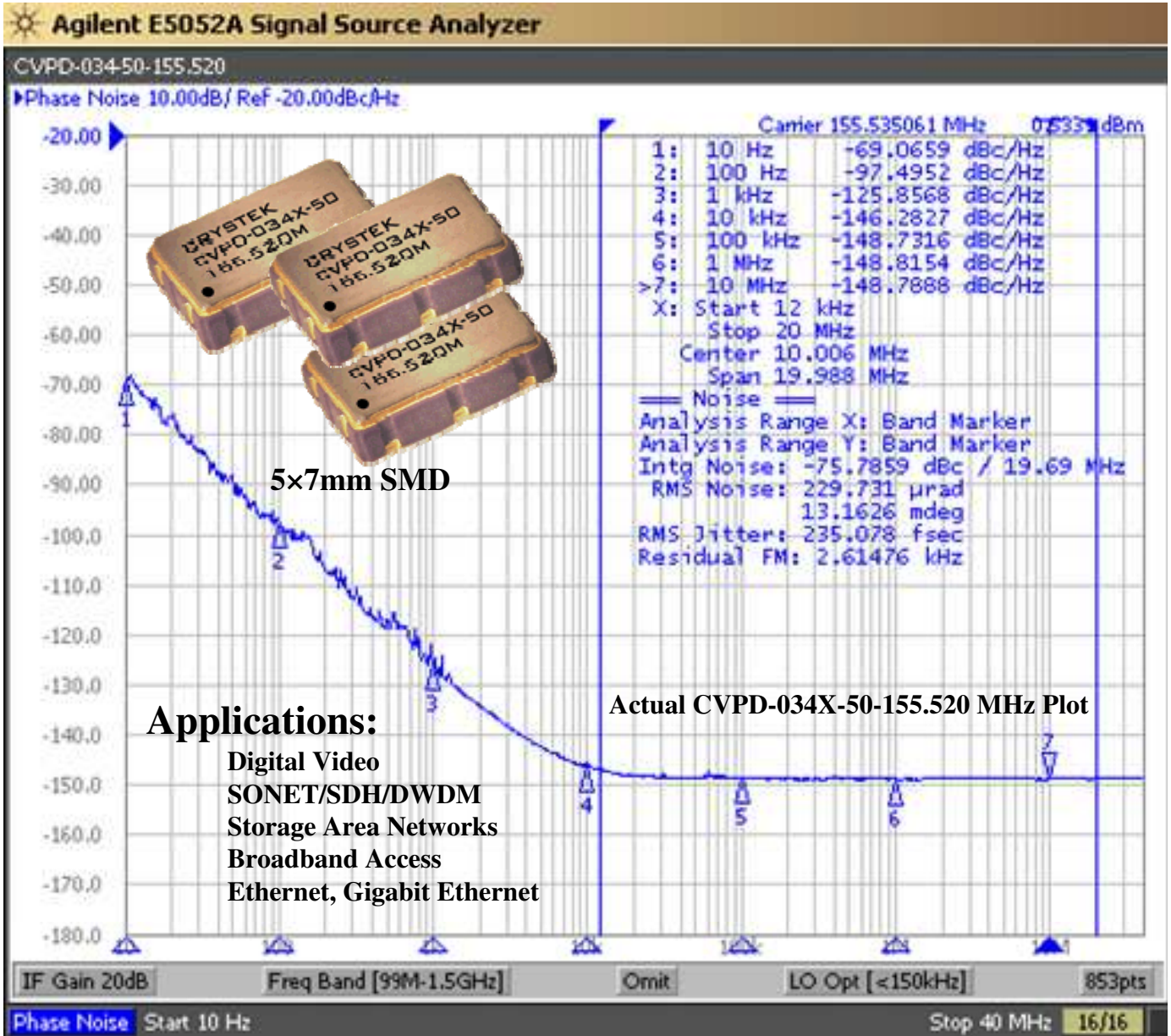
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5x7mm SMD

Applications:

- Digital Video
- SONET/SDH/DWDM
- Storage Area Networks
- Broadband Access
- Ethernet, Gigabit Ethernet

Actual CVPD-034X-50-155.520 MHz Plot

CVPD-034 LVPECL
Voltage Controlled Crystal Oscillator
5×7mm SMD
3.3 Volts



Frequency Range: 77.760 MHz to 200.000 MHz

Frequency Pulling (APR*) Min.: ±50ppm

Temperature Range: (standard) 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 ±5%
Control Voltage: 1.65V ±1.65V
Input Current: 55mA Typical, 88mA Max

Output: Differential LVPECL
Symmetry: 45/55% Max @ 50% Vdd
Rise/Fall Time: 1nsec Max @ 20% to 80% Vdd
Linearity: ±10% Max

Logic: Terminated to Vdd-2V into 50 Ω
Temp. 0°C to 85°C "0"=1.490 Min, 1.680 Max
"1"=2.275 Min, 2.420 Max
Temp. -40°C to 0°C "0"=1.490 Min, 1.745 Max
"1"=2.215 Min, 2.420 Max
Disable Time: 200nSec Max
Enable Time: 20uSec Max

Phase Jitter: 12kHz~80MHz 0.5psec Typical, 1psec RMS Max

Phase Noise: 10Hz -70dBc/Hz Typical
100Hz -98dBc/Hz Typical
1kHz -125dBc/Hz Typical
10kHz -145dBc/Hz Typical
100kHz -149dBc/Hz Typical

Sub-harmonics: None

Aging: <5ppm 1st year, <2ppm every year thereafter



* Inclusive of calibration, frequency stability, and aging

Rev: V
Date: 20-Feb-13
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Crystek Part Number Guide

CVPD - 034 X - 50 - 155.520

#1 #2 #3 #4 #5

#1 Crystek PECL VCXO
#2 Model 034
#3 Temp Range: Blank = 0/70°C, M = -20/70°C, X = -40/85°C
#4 Pullability: (see Table 1)
#5 Frequency in MHz: 3 or 6 decimal places

Pullability Indicator

50 ± 50ppm

Table 1

Example:

CVPD-034X-50-155.520

3.3V, -40/85°C, ±50ppm (APR), 155.520 MHz

Standard Frequencies

(±50ppm, 0/70°C)
77.760 MHz
155.520 MHz
156.250 MHz
161.132800 MHz
200.000 MHz

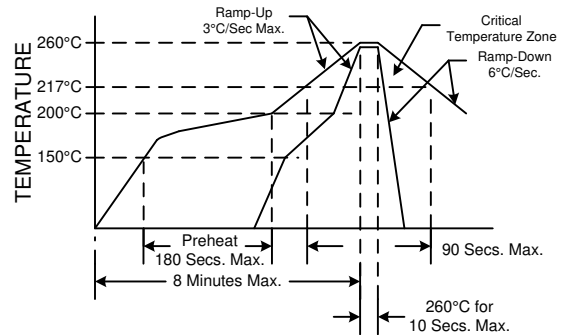
Mechanical:

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

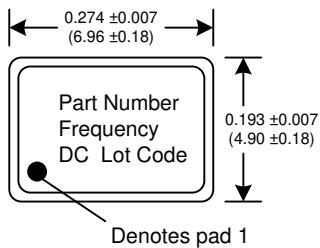
Environmental:

Thermal Shock: MIL-STD-883, Method 1011, Condition A
Moisture Resistance: MIL-STD-883, Method 1004

RECOMMENDED REFLOW SOLDERING PROFILE

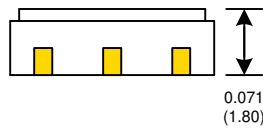


NOTE: Reflow Profile with 240°C peak also acceptable.

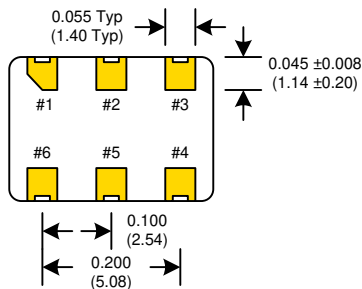


Dimensions inches (mm)

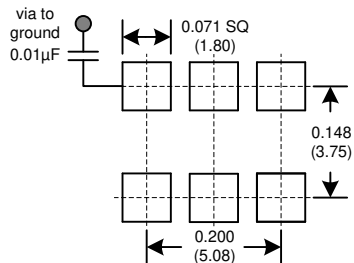
All dimensions are Max unless otherwise specified.



Tristate Function	
Function pin 2	Output pin
Open or N/C	Active
"1" level 0.7×Vdd Min	Active
"0" level 0.3×Vdd Max	High Z



SUGGESTED PAD LAYOUT



0.01µF Bypass Capacitor Recommended

PIN	Connection
1	Volt Control
2	Enable/Disable
3	GND
4	Output
5	Comp Output
6	Vcc

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