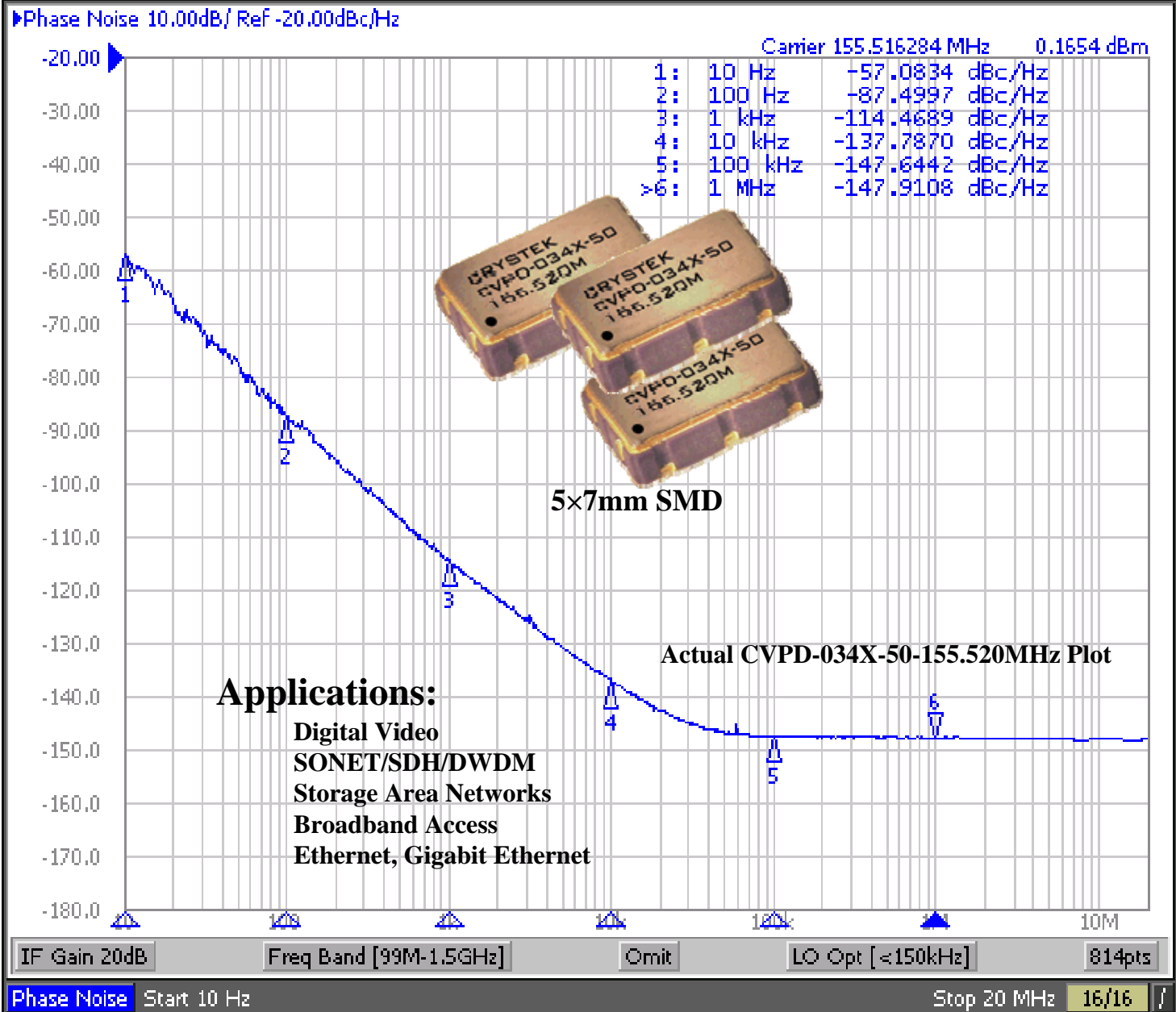




Agilent E5052A Signal Source Analyzer



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



Frequency Range:	77.760MHz to 200.000MHz
Frequency Pulling (APR) Min.:	±50ppm (std), ±100
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 ± 0.3V
Control Voltage:	1.65V ±1.65V
Input Current:	55mA Typ., 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”=1.470 Min., 1.745 Max
	“1”=2.215 Min., 2.420 Max
Disable Time:	200nSec Max
Enable Time:	1mSec Typ., 2mSec Max
Phase Jitter: 12kHz~80MHz	0.5psec Typ., 1psec RMS Max
Phase Noise: 10Hz	-60dBc /Hz Typical
100Hz	-90dBc /Hz Typical
1kHz	-115dBc /Hz Typical
10kHz	-140dBc /Hz Typical
100kHz	-145dBc /Hz Typical
Sub-harmonics:	None
Aging:	<5ppm 1st year, <2ppm every year thereafter

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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 Stability: (see Table 1)
#5 Frequency in MHz: 3 or 6 decimal places

Stability Indicator

Blank (std) ± 100ppm
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)
77.760MHz
155.520MHz
156.250MHz
161.132800MHz
200.000MHz

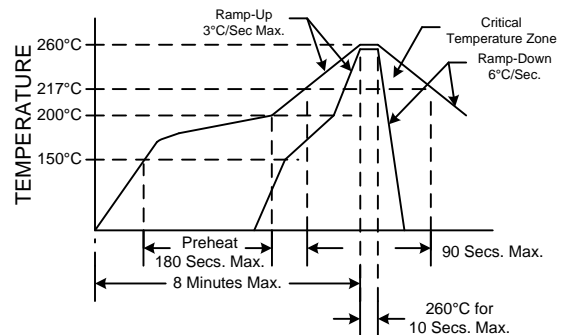
Mechanical:

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

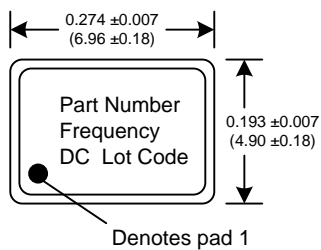
Environmental:

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

RECOMMENDED REFLOW SOLDERING PROFILE

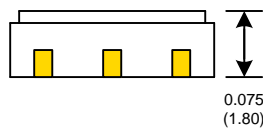


NOTE: Reflow Profile with 240°C peak also acceptable.



Dimensions inches (mm)

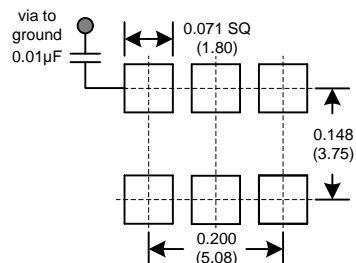
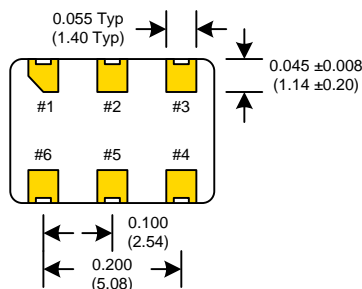
All dimensions are Max unless otherwise specified.



Tristate Function

Function pin 1	Output pin
Open or N/C	Active
"1" level 0.7xVdd Min	Active
"0" level 0.3xVdd 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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