Ultra-Low Noise LVPECL VCXO with -160 dBc/Hz Noise Floor!

CVPD-925 Model
9×14 mm SMD, 3.3V, LVPECL

Frequency Range: 131 MHz to 160 MHz
Frequency Pulling: ±20 ppm APR Min
Temperature Range: 0°C to 70°C
(Option X)
Storage: -40°C to 85°C
Input Voltage: 3.3V ±0.3V
Input Current: 88mA Max
Output:
Symmetry: Differential LVPECL
Rise/Fall Time: 1ns Max (20% to 80%)
Linearity: ±10% Max
Logic:
Terminated to Vcc-2V into 50 ohms
"0" = Vcc-1.85V Min, Vcc-1.62V Max
"1" = Vcc-1.02V Min, Vcc-0.81V Max
Disable Time: 200ns
Start-up Time: 1ms Typical, 2ms Max

Input:
Modulation Bandwidth: >10kHz @ -3dB
Input Impedance: 51 kΩ
Control Voltage: 1.65V ±1.65V
Tuning Sensitivity: +25ppm/V Typical
Sub-Harmonics: None
Phase Jitter: 12 kHz to 20 MHz
Phase Noise: 58 femtoseconds Typical @ 160 MHz
Aging: <3ppm 1st year, <1ppm every year thereafter

Available Frequencies (MHz):
155.520
156.250
160.000

Specifications subject to change without notice.
Ultra-Low Noise
LVPECL VCXO
with -160 dBC/Hz Noise Floor!

CRYSTEK
CVPD-925 Model
9×14 mm SMD, 3.3V, LVPECL

Crystek Part Number Guide

<table>
<thead>
<tr>
<th>Crystek Part Number Guide</th>
<th>CVPD-925 X - 160.000</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 Crystek 9×14 SMD PECL VCXO</td>
<td></td>
</tr>
<tr>
<td>#2 Model 925</td>
<td></td>
</tr>
<tr>
<td>#3 Temp. Range: Blank = 0/70°C, X = -40/85°C</td>
<td></td>
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<tr>
<td>#4 Frequency in MHz: 3 or 6 decimal places</td>
<td></td>
</tr>
</tbody>
</table>

Example: CVPD-925X-160.000 = 3.3V, 45/55, -40/85°C, 160.000 MHz

RECOMMENDED REFLOW SOLDERING PROFILE
900034 (See App Note listed on website)

<table>
<thead>
<tr>
<th>PIN</th>
<th>Function</th>
<th>Enable/Disable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Control Volt</td>
<td>Open</td>
</tr>
<tr>
<td>2</td>
<td>E/D</td>
<td>&quot;1&quot; level 2.0V Min</td>
</tr>
<tr>
<td>3</td>
<td>GND</td>
<td>&quot;0&quot; level 0.8V Max</td>
</tr>
<tr>
<td>4</td>
<td>OUT</td>
<td>Active</td>
</tr>
<tr>
<td>5</td>
<td>COUT</td>
<td>High Z</td>
</tr>
<tr>
<td>6</td>
<td>Vdd</td>
<td>Active</td>
</tr>
</tbody>
</table>

PAD FINISH: Immersion Gold (ENIG); 5 micro inches maximum

Mechanical:
Vibration: MIL-STD-883, Method 2007, Condition A
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

Packaging:
Tape/Reel: 100ea, 250ea, 500ea 24mm Tape

Date: 19-Nov-2018
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