



**CRYSTEK**  
CRYSTALS  
A DIVISION OF CRYSTEK CORPORATION

# LVDS / LVPECL Clock Oscillator Guide



## 5.0 x 7.0 mm SMD (LVDS)

| Model                | Freq. Range (MHz)                        | Input Voltage (Vdc) | Stability Options  | Product Features  |
|----------------------|--|---------------------|--|---|
| CCLD-023<br>CCLD-024 | 77.760 to 161.1328<br>162.000 to 312.500 | 2.50                | ±20 to ±100ppm Max (0/70°C)<br>±25 to ±100ppm Max (-40/85°C) | Phase Jitter: 12kHz~80MHz<br>RMS (0.5ps Typical, 1.0ps Max) |
| CCLD-033<br>CCLD-034 | 77.760 to 161.1328<br>162.000 to 312.500 | 3.30                | ±20 to ±100ppm Max (0/70°C)<br>±25 to ±100ppm Max (-40/85°C) | Phase Jitter: 12kHz~80MHz<br>RMS (0.5ps Typical, 1.0ps Max) |

## 5.0 x 7.0 mm SMD (LVPECL)

| Model    | Freq. Range (MHz)  | Input Voltage (Vdc) | Stability Options  | Product Features  |
|----------|--------------------|---------------------|--|---|
| CCPD-023 | 77.760 to 161.1328 | 2.50                | ±20 to ±100ppm Max (0/70°C)<br>±25 to ±100ppm Max (-40/85°C) | Phase Jitter: 12kHz~80MHz<br>RMS (0.5ps Typical, 1.0ps Max) |
| CCPD-024 | 162.000 to 312.500 | 2.50                | ±20 to ±100ppm Max (0/70°C)<br>±25 to ±100ppm Max (-40/85°C) | Phase Jitter: 12kHz~80MHz<br>RMS (0.5ps Typical, 1.0ps Max) |
| CCPD-033 | 77.760 to 161.1328 | 3.30                | ±20 to ±100ppm Max (0/70°C)<br>±25 to ±100ppm Max (-40/85°C) | Phase Jitter: 12kHz~80MHz<br>RMS (0.5ps Typical, 1.0ps Max) |
| CCPD-034 | 162.000 to 312.500 | 3.30                | ±20 to ±100ppm Max (0/70°C)<br>±25 to ±100ppm Max (-40/85°C) | Phase Jitter: 12kHz~80MHz<br>RMS (0.5ps Typical, 1.0ps Max) |
| CCPD-575 | 50.000 to 153.600  | 3.30                | ±20ppm Max (-40/85°C)  | Phase Jitter: 12kHz~80MHz<br>RMS (86fSec Typical)           |

## 5.0 x 7.5 mm SMD (LVPECL)

| Model    | Freq. Range (MHz) | Input Voltage (Vdc) | Stability Options     | Product Features                                  |
|----------|-------------------|---------------------|-----------------------|---|
| CCPD-575 | 50.000 to 156.25  | 3.30                | ±20ppm Max (-40/85°C) | Phase Jitter: 12kHz~80MHz<br>RMS (65fSec Typical) |

## 9.0 x 14.0 mm SMD (LVPECL)

| Model    | Freq. Range (MHz) | Input Voltage (Vdc) | Stability Options  | Product Features   |
|----------|-------------------|---------------------|--|--|
| CCPD-920 | 50.000 to 150.000 | 3.30                | ±20 to ±50ppm Max (0/70°C)<br>±25 to ±50ppm Max (-40/85°C)   | Phase Jitter: 12kHz~80MHz<br>RMS (0.5ps Typical, 1.0ps Max)<br>Phase Noise: -65dBc @ 10Hz<br>-145dBc @ 100kHz  |
| CCPD-940 | 77.760 to 212.500 | 3.30                | ±20 to ±100ppm Max (0/70°C)<br>±20 to ±100ppm Max (-40/85°C) | Phase Jitter: 12kHz~80MHz<br>RMS (0.5ps Typical, 1.0ps Max)<br>Phase Noise: -80dBc @ 100Hz<br>-140dBc @ 100KHz |



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