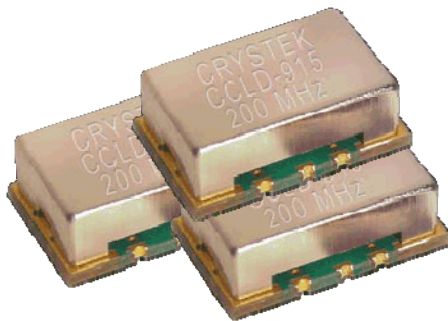


CCLD-915 Model
9×14 mm SMD, 3.3V, LVDS



Model CCLD-915 is a 162.000MHz to 250.000MHz LVDS Clock Oscillator operating at 3.3Volts. The oscillator utilizes a High Q Third Overtone crystal design providing very low Jitter and Phase Noise. No Sub-Harmonics are present in the Output Signal.



9×14mm SMD

Applications:

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

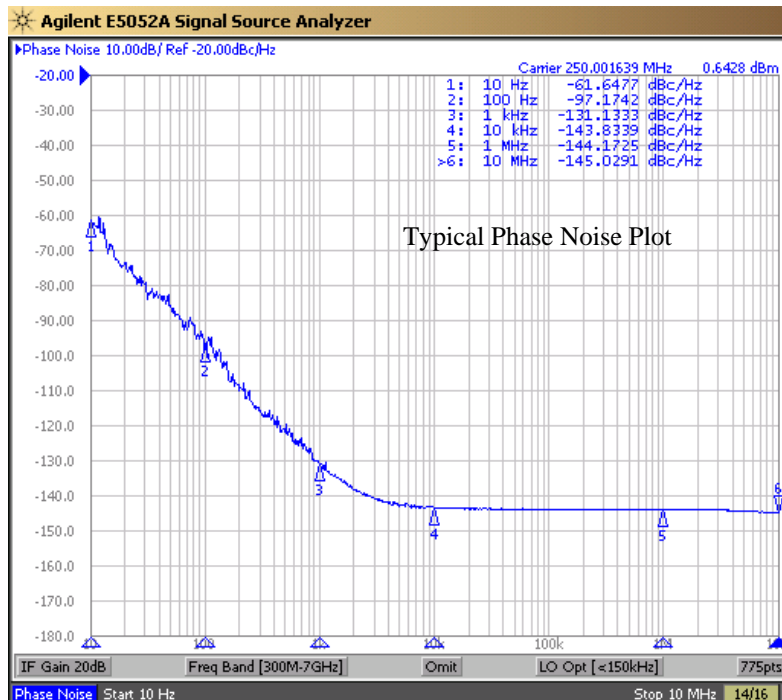
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CCLD-915 Model
9×14 mm SMD, 3.3V, LVDS



Frequency Range:	162.000MHz to 250.000MHz
Frequency Stability Options(ppm):	±25, ±50, ±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
Input Current:	45mA Typ., 66mA Max
Output:	Differential LVDS
Symmetry:	45/55% Max @ 50% Vdd
Rise/Fall Time:	1nsec Max @ 20% to 80% Vdd
Load:	100 Ohms Connected between OUT and COUT
Logic:	
Output Voltage Levels	“0”=0.90 Min., 1.10 Typ.
	“1”=1.43 Typ., 1.60 Max
Differential Output Voltage:	247mV Min., 454mV Max
Disable Time:	200nSec Max
Enable Time:	2mSec Max
Phase Jitter: 12kHz~80MHz	0.5psec Typ., 1psec RMS Max
Phase Noise: (See Plot Below)	
Sub-harmonics:	None
Aging:	<3ppm 1st/yr, <1ppm every year thereafter



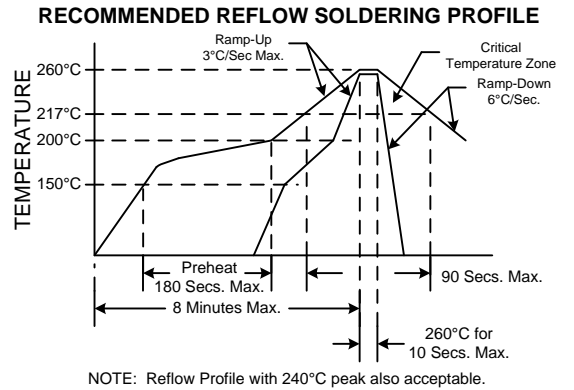
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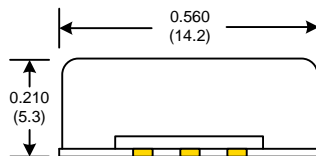
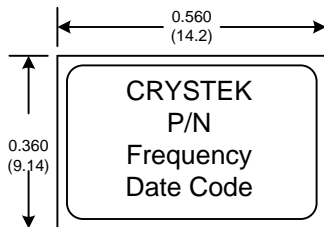
CCLD-915 Model
9x14 mm SMD, 3.3V, LVDS

Crystek Part Number Guide	
<u>CCLD - 915 X - 50 - 200.000</u>	
#1	#2
#3	#4
#5	
#1 Crystek LVDS Osc. #2 Model 915 #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	
Example: CCLD-915X-50-200.000 3.3V, -40/85°C, ±50ppm, 200.000 MHz	
Stability Indicator	
Blank	± 100ppm
50	± 50ppm
25	± 25ppm
Table 1	

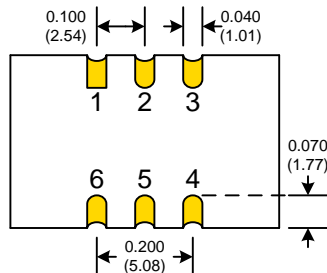
Mechanical:	
Shock:	MIL-STD-883, Method 2002, Condition B
Solderability:	MIL-STD-883, Method 2003
Vibration:	MIL-STD-883, Method 2007, Condition A
Solvent Resistance:	MIL-STD-202, Method 215
Resistance to Soldering Heat:	MIL-STD-202, Method 210, Condition I or J
Environmental:	
Thermal Shock:	MIL-STD-883,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



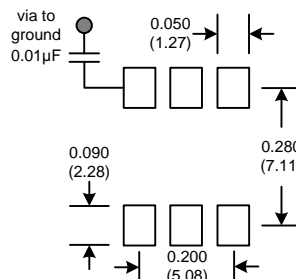
Dimensions inches (mm)
All dimensions are Max unless otherwise specified.



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



PIN	Connection
1	Enable/Disable
2	N/C
3	GND
4	Output
5	Comp Output
6	Vcc

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