



Model CCLD-054X is a 662.080MHz LVDS Clock Oscillator operating at 3.3Volts. Enable/Disable function used for system testing is offered as a standard feature. Operating Temperature is from -40°C to +85°C with ±20ppm Frequency Stability.



5×7mm SMD

Applications:

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

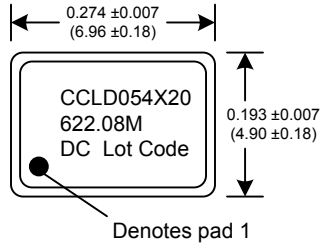
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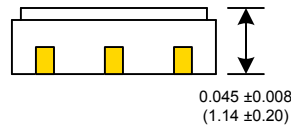
Performance Specification	MIN	TYP	MAX	UNITS
Nominal Frequency:	622.080			MHz
Frequency Stability:	-20		+20	ppm
Output Phase Noise:				
@1kHz Offset		-100		dBc/Hz
@10kHz Offset		-125		dBc/Hz
@100kHz Offset		-138		dBc/Hz
@1MHz Offset		-140		dBc/Hz
@10MHz Offset		-142		dBc/Hz
Jitter: 12kHz-20MHz			2	pS, RMS
Differential Clock Rise Time:	0.2	0.5	0.7	nSec
Differential Clock Fall Time:	0.2	0.5	0.7	nSec
Output High Voltage, V _{OH} :		1.40	1.60	V
Output Low Voltage, V _{OL} :	0.90	1.10		V
Differential Output:	247	330	454	mV _{OD}
Differential Output Error:			50	mV
Differential Output Skew:			200	pSec
Output Leakage Current:	-10		+10	μA
Output Load (differential):	100			Ω
Enable High Voltage, V _{IH} :	0.7×V _{CC}		V _{CC}	V
Disable Low Voltage, V _{IL} :	GND		0.3×V _{CC}	V
Output Enable/Disable Time:			400	nSec
Duty Cycle @ 1.25V(LVDS):	45	50	55	%
Offset Voltage:	1.125	1.2	1.375	V
Offset Error:	0	3	25	V
Supply Voltage:	3.15	3.3	3.45	V
Supply Current, I _{CC} Enabled:			80	mA
Supply Current, I _{CC} Disabled:			10	μA
Operating Temperature:	-40		+85	°C
Storage Temperature:	-45		+90	°C

Parameter	Conditions
Mechanical Shock	MIL-STD-883, Method 2002
Mechanical Vibration	MIL-STD-883, Method 2007
Solderability	MIL-STD-883, Method 2003
Resistance to Solvents	MIL-STD-883, Method 2016

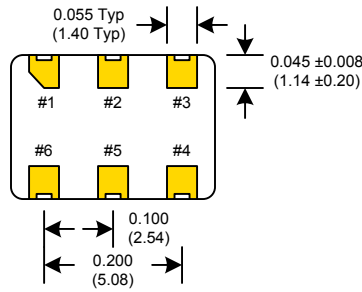
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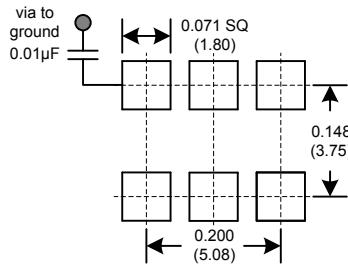
Dimensions inches (mm)
All dimensions are Max unless otherwise specified.



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

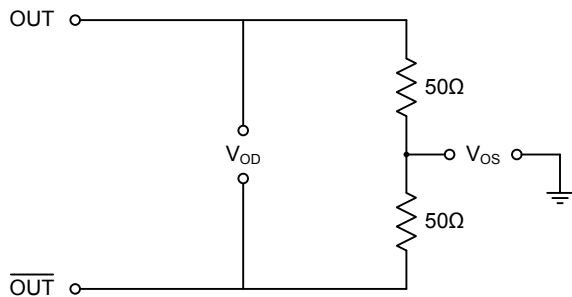


SUGGESTED PAD LAYOUT

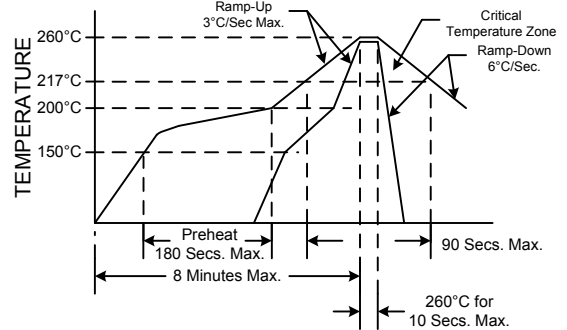


0.01µF Bypass Capacitor Recommended

LVDS TEST CIRCUIT



RECOMMENDED REFLOW SOLDERING PROFILE



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

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