3,3V LVDS Low Jiller XO





PP & HUDPLF 60'

Product Features

O+]) UHTXHQF\ WR

SV 506 MLWWHU ZLWK QRO

Designed for standard reflow & washing WHFKQLTXHV

IBIS models available

3 F IUHH

Product Description

The LD Series 3.3V crystal clock oscillator achieves superb jitter and stability over a broad UDQJH RI RSHUDWLQJ FRQGLWLRQV The output clock signal, generated internally

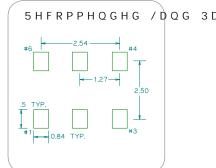
with a non-PLL oscillator design, is compatible with LVDS logic levels. The device, available RQ WDSH DQG UHHO 3.2mm surface-mount ceramic package.

Package:









Pin Functions:

Pin	Function					
1	OE or NC					
2	NC or OE					
3	Ground					
4	Q Output					
5	Q Output					
6	V _{CC}					

1

Applications

The LD Series is ideal for high-speed

DSSOLFDWLRQV UHTXLULQJ ORZ MLWWHU LQFOXGLQJ

FRQWDLQHG

*LJDELW (WKHUQHW

*) LEUH&KDQQHO

Serial Attached SCSI (SAS)

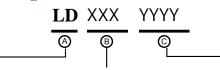
Server & Storage platforms

621(7 6' + OLQHFDUGV

Passive Optical Network (PON) devices

+ ' 9 L G H R 6 \ V W H P V

Part Ordering Information:



Product Family Frequency CodeSpecification Cod

) ROORZLQJ WKH DERYH IRUPDW 6DURQL[H&HUD SDUW Q> , FRQILUPDWLRQ RI H[DFW FXVWRPHU UHTXLUHPHQWV

6D5RQL[H&HUD LV D 3HULFRP 6 H P L F R Q G X F W R U FRPSDQ\ZZZ V D U R806L HFHUD

LD Series Crystal Clock Oscillator (XO) 5.0 x 3.2mm

Electrical Performance

Parameter	Min.	Тур.	Max.	Units	Notes
Output Frequency	38.88		162	MHz	As specified
Supply Voltage	2.25	2.50	2.75	V	
Supply Current, Enabled		35	47	mA	
Supply Current, Disabled			0.03	mA	
Frequency Stability			±20 to ±50	ppm	See Note 1 below
Operating Temperature Range	-20		+70	°C	Commercial (standard)
	-40		+85		Industrial (standard)
Output Logic 0, VoL	0.9	1.1		V	
Output Logic 1, VoH		1.43	1.6	V	
Output Load	100Ω connected between both outputs				output requires termination
Duty Cycle	45		55	%	measured 50% of waveform
Rise and Fall Time		500	850	ps	measured 20/80% of waveform
Jitter, Phase		0.5	1	ps RMS (1-σ)	12kHz to 20MHz frequency band
Jitter, Total			25	ps pk-pk	100,000 random periods

Notes:

- Stability includes all combinations of operating temperature, load changes, rated input (supply) voltage changes, initial calibration tolerance (25°C), aging (5 year at 40°C average effective ambient temperature), shock and vibration.
- 2. For specifications othere than those listed, please contact sales.

Output Enable / Disable Function

Parameter	Min.	Тур.	Max.	Units	Notes
Input Voltage (pin OE), Output Enable	0.7			V	or open
Input Voltage (pin OE), Output Disable (low power standby)			0.3	V	Outpus disabled to Hi-Z
Internal Pullup Resistance	50			kΩ	
Output Disable Delay			200	ns	
Output Enable Delay			10	ms	

Absolute Maximum Ratings

Parameter	Min.	Тур.	Max.	Units	Notes
Storage Temperature	-55		+125	°C	

For the latest product information visit: KWWS ZZZ SHULFRP FRP SURGXFWV WLPLQJ RVFLOODWR

For test circuit go to KWWS ZZZ SHULFRP FRP SGI VUH WFBOYGV SGI

For soldering reflow profile and reliability test ratings go to: KWWS ZZZ SHULFRP FRP SGI VUH UHIORZ SG

For tape and reel information go to: KWWS ZZZ SHULFRP FRP SGI VUH WUB B[R SGI

