

Differential Oscillator— D

3D-Series (3225)



■ Features

- 3.2 x 2.5 x H1.05±0.15 mm
- LVDS output signaling types

■ Applications

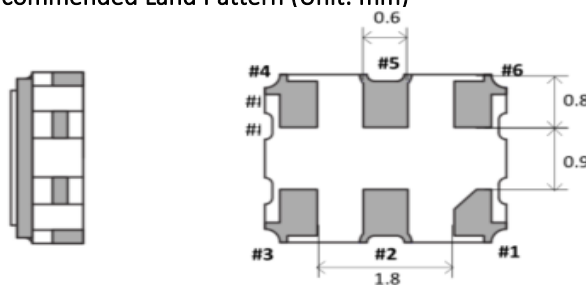
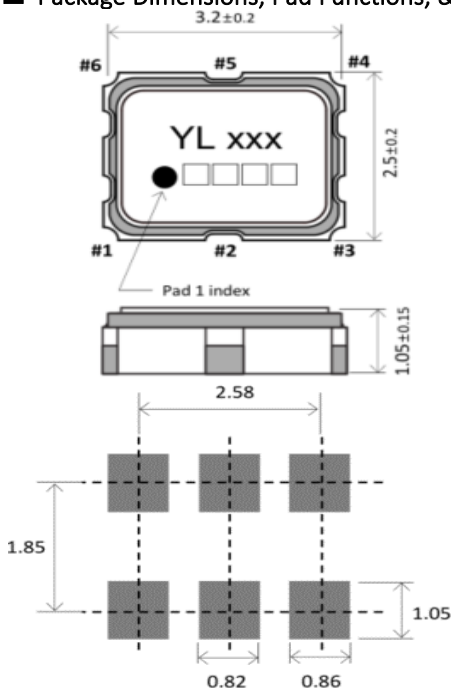
- 10GB Ethernet, SONET,SATA,SAS,Fibre Channel,PCI-Express
- pci-ExpressTelecom, networking,
- instrumentation, storage, server



■ General Specifications

| # | Items | Parameters |
|----|---|---|
| 1 | Frequency range | 25 ~ 175 MHz |
| 2 | Output type | LVDS |
| 3 | Output Load | 100 Ω |
| 4 | Supply voltage (V _{DD}) | 1.8 V , 2.5 V , 3.3 V |
| 5 | Operating temperature range | -20 to +70°C, -40 to +85°C , or specify |
| 6 | Storage temperature range | -55 to +125°C |
| 7 | Frequency stability vs. operating temperature range | ± 100 ppm , or specify |
| 8 | Current consumption | 80mA Max. |
| 9 | Output level V _{OH} | 1.4 V Typ. |
| 10 | Output level V _{OL} | 1.1 V Typ. |
| 11 | Offset voltage | 1.25V Typ. |
| 12 | Offset error | 50mV Typ. |
| 13 | Differential output voltage | 350mV Typ. |
| 14 | Differential output error | 40mV Typ. |
| 15 | Duty cycle | 45 to 55% |
| 16 | Rise/fall time | 1ns Max. |
| 17 | Phase Jitter (12 KHz ~ 20 MHz) | 1.0ps Max. |
| 18 | Start-up time | 10ms Max. |

■ Package Dimensions, Pad Functions, & Recommended Land Pattern (Unit: mm)



| Pad | Function | Symbol |
|-----|----------------------|-----------------|
| #1 | Output enable | OE |
| #2 | Not connected | NC |
| #3 | Ground | GND |
| #4 | Output | OUT |
| #5 | Complementary output | OUTN |
| #6 | Supply voltage | V _{DD} |

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