



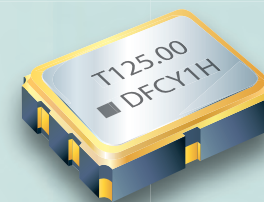
SMD LVDS Crystal Oscillators - Differential Output

3.2 x 2.5 x 0.95 mm DF Series

Oscillators Series

Features

- 3rd overtone solution.
- 3.3V and 2.5V operation available.
- LVDS output, output frequencies 25 MHz to 200 MHz.
- Excellent low phase noise and jitter.
- Tri-State function available.
- Applications : Fibre Channel, Gigabit Ethernet, Serial ATA, Serial Attached SCSI, PCI-Express, SDH/SONET.
- RoHS Compliant / Pb Free.

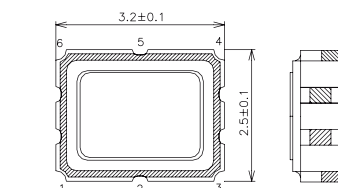


Electrical Specifications

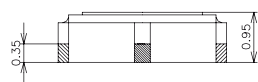
| Item / Type | DF |
|--|---|
| Output Type | LVDS |
| Output Load | 100 Ω |
| Oscillation Mode | 3rd Overtone |
| Supply Voltage | 2.5 V , 3.3 V |
| Frequency Range | 25 ~ 200 MHz |
| Overall Frequency Stability * | ± 50 ppm , or specify |
| Operating Temperature Range | 0 ~ + 70 $^{\circ}$ C , - 40 ~ + 85 $^{\circ}$ C , or specify |
| Storage Temperature Range | - 55 ~ + 125 $^{\circ}$ C |
| Voltage Vol (Min.) / Voh (Max.) | 0.9 V / 1.6 V |
| Rise (Tr) / Fall (Tf) Time (20 % ~ 80 %) | 1 nS Max. |
| Supply Current | 80 mA Max. |
| Symmetry | 45 ~ 55 % |
| Start-up Time | 10 mS Max. |
| Phase Jitter (12 KHz ~ 20 MHz) | 1 pS Max. |

* Inclusive of frequency tolerance at 25 $^{\circ}$ C, variation over temperature, supply voltage variation, aging and vibration.

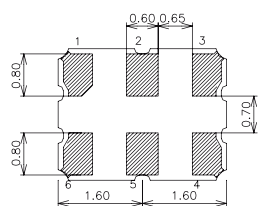
Dimensions



Top View



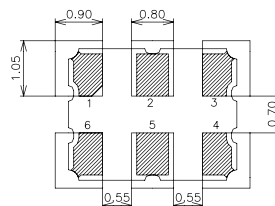
Side View



Bottom View

PAD FUNCTION:

- 1: ENABLE CONTROL or NC
- 2: ENABLE CONTROL or NC
- 3: GND
- 4: OUT
- 5: OUTN
- 6: VDD



Top View Suggested Layout

Units: mm

