

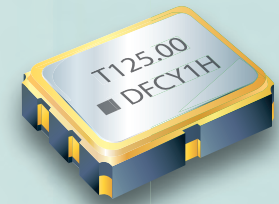


SMD LVDS Crystal Oscillators - Differential Output

3.2 x 2.5 x 0.95 mm DF 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.

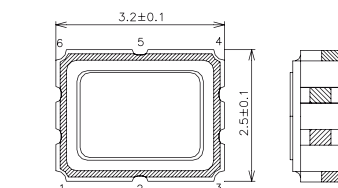


Electrical Specifications

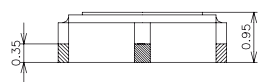
Item / Type	DF
Output Type	LVDS
Output Load	100 Ω
Oscillation Mode	3rd Overtone
Supply Voltage	2.5 V , 3.3 V
Frequency Range	25 ~ 200 MHz
Overall Frequency Stability *	± 50 ppm , or specify
Operating Temperature Range	0 ~ + 70 $^{\circ}$ C , - 40 ~ + 85 $^{\circ}$ C , or specify
Storage Temperature Range	- 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.

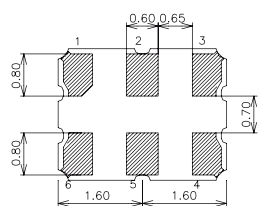
Dimensions



Top View

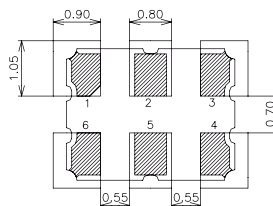


Side View



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

