# 6Gbps SFP+ BiDi Transceiver
# CLSF6GBD2710D

## Product Features:

- Up to 6Gbps data links
- 10km with 9/125μm SMF
- 1270nm DFB laser
- PIN ROSA
- Simplex LC Connector
- Hot-pluggable SFP+ footprint
- Single 3. 3V power supply
- Operating temperature: 0°C to 70°C
- RoHS
- Digital Diagnostic Monitor (DDM)

## Functional Characteristics (Optical)

The following tables list the performance specifications for the various functional blocks of the integrated optical transceiver module.

**Table 1 – Transmitter Optical Specifications**

| Parameter | Symbol | Min. | Typical | Max. | Unit |
|---|---|---|---|---|---|
| Centre Wavelength | λc | 1260 | 1270 | 1280 | nm |
| Spectral Width (-20dB) | σ | | | 1 | nm |
| Average Output Power | Pout | -5 | | 0 | dBm |
| Extinction Ratio | ER | 3.5 | | | dB |
| Average Launch Power of Off Transmitter | Poff | | | -30 | dBm |

**Table 2 – Receiver Optical Specifications**

| Parameter | Symbol | Min. | Typical | Max. | Unit |
|---|---|---|---|---|---|
| Centre Wavelength | λc | 1320 | 1330 | 1340 | nm |
| Receiver Sensitivity | PIN | | | -14 | dBm |
| Power Received Max | Pmax | 0.5 | | | dBm |
| LOS De-Assert | LOSD | | | -20 | dBm |
| LOS Assert | LOSA | -23 | | | dBm |
| LOS Hysteresis | | 0.5 | | 4.5 | dB |

## Ordering Information

**Table 3 - Ordering Information**

| Part No. | Data Rate | DDM | Wave | Fiber Type | Dist. | Temp. | Optical Interface |
|---|---|---|---|---|---|---|---|
| CLSFP6GBD2710D | 6Gbps | yes | T1270nm<br>R1330nm | SMF | 10km | 0~70℃ | BiDi LC |

## CONTACT:

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