

25Gbps SFP+ BIDI 10km Transceiver CLSFP25GBD2710D

Product Features

- Supports 25GBASE (25Gb/s);
- Lane bit rate 25.78 Gb/s;
- Up to 10km transmission on SMF;
- WDM TX1270/RX1330nm DFB/PIN laser
- High speed I/O electrical interface (25GAUI);
- I2C interface with integrated Digital Diagnostic monitoring;
- SFP28 MSA package with simplex LC connector;
- Single +3.3V power supply; Maximum power consumption 1.2 W;
- Operating case temperature: Refer to Order info.
- Compliant to IEEE 802.3cc Draft3.0, SFF-8402 and SFF-8432;



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	Notes
Center Wavelength	λ_0	1260	1270	1280	nm	
Average Power	P _{out}	-5	-	4	dBm	1,2
Spectral Width (-20dB)	σ	-	-	1	dBm	3
Side Mode Suppression Ratio	SMSR	30	-	-	dB	
Extinction Ratio	ER	3.5	-	-	dB	
Transmitter and dispersion penalty (TDP)	TDP	-	-	2.7	dB	
Optical Return Loss Tolerance	ORLT	-	-	20	dB	
Optical Eye Mask	Compliant with IEEE 802.3cc Draft 3.0					

Note 1: Average launch power, each lane (min) is informative and not the principal indicator of signal strength

Note 2: Transmitter reflectance is defined looking into the transmitt

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Center Wavelength	λ_0	1320	1330	1340	nm	
Receiver sensitivity (OMA)		-	-	-16	dBm	5
Stress sensitivity (OMA)		-	-	-8.8	dBm	6
Receiver Overload	PIN-OL	-2	-	-	dBm	
LOS Assert	LOSA	-30	-	-	dBm	
LOS De-assert	LOSD	-	-	-17	dBm	
LOS Hysteresis	LOSH	0.5	-	4	dB	

Note 1: Measured with conformance test signal at TP3for the BER= 6.4x10⁻⁵.



Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	Laser	Fiber Type	Distance	Optical Interface	Temp	DDMI
CLSFP25GBD2710D	25.78Gbps	1270nm/1330nm	SMF	10KM	LC Simplex	0~70 °C	Yes

CONTACT:

Email: sales@c-light.com <https://www.c-light.com>