25Gbps SFP28 BIDI 40km Transceiver
CLSFP25GBD293140

Product Features:

- Hot pluggable SFP28 form-factor
- Data rate up to 25.78Gb/s
- Tx1290nm/Rx1310nm
- Uncooled DFB transmitter
- High sensitivity APD receiver
- Transmission distance up to 40km
- Operating temperature:0°C ~ 70°C
- Built-in digital diagnostic function
- Duplex LC Connector
- Single +3.3V power supply
- Power consumption < 1.5W
- RoHS-6 compliant (lead-free)

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	Typ	Max	Unit	Note
Wavelength	λt	1281		1297	nm	
Output Spectral Width (-20dB)	λ			1	nm	
Side Mode Suppression Ratio	SMSR	30			dB	
Average Optical Power	Po	0		+5	dBm	1
Extinction Ratio	ER	4			dB	
Transmitter and dispersion penalty	TDP			2.7	dB	
RIN20OMA	RIN			-130	dB/Hz	

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min	Typ	Max	Unit	Note
Wavelength	λr	1303		1317	nm	
Receiver Sensitivity (OMA)	SEN			-18	dBm	2
Stressed Receiver Sensitivity (OMA)	SEN2			-15	dBm	2
Overload	Sat	-4			dBm	
Rx_LOS Assert	LOSA	-25			dBm	
Rx_LOS Dessert	LOSD			-23	dBm	
RX_LOS Hysteresis	LOSH	0.5		5	dB	
Receiver Reflectance	RRF			-26	dB	

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	Tx/Rx Laser	Fiber Type	Distance	Optical Interface	Temp	DDM
CLSFP25GBD293140	25.78Gbps	1290nm/1310nm	SMF	40km	LC	0~70 °C	Y

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