2.5Gbps Low Power Consumption CSFP （Compact BiDi SFP Transceiver）
CLCSFP25BD141320D

Product Features:

- Up to 2.5Gbps data links
- 20km with on 9/125μm SMF
- 1490nm DFB laser transmitter, 1310nm PIN-TIA receiver
- Duplex LC Connector
- Two Bi-Directional transceivers in one SFP package
- Single +3. 3V power supply
- Temperature & Power Consumption: 0°C to 50°C <1W; 50°C to 70°C <1.1W
- RoHS

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	1470	1490	1510	nm
Spectral Width (-20)	Δλ	-	-	1	nm
Optical Output Power	Po	-9	-	-3	dBm
Optical Extinction Ratio	ER	9	-	-	dB
Rise/Fall Time (20%-80%)	Tr/Tf	-	-	260	ps

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit
Centre Wavelength	λc	1290	1310	1330	nm
Receiver Sensitivity	PIN-MIN	-	-	-23	dBm
Receiver Overload	PIN-MAX	3	-	-	dBm
LOS De-Assert	PD	-	-	-28	dBm
LOS Assert	PA	-34	-	-	dBm
LOS Hysteresis	PA- PD	0.5	-	-	dB

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	DDM	Wave	Fiber Type	Dist.	Temp.	Optical Interface
CLCSFP25BD141320D	2.5Gbps	yes	Tx:1490nm Rx: 1310nm	SMF	20km	0~70℃	CSFP LC

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