155Mbps BiDi LC 180km SFP Transceiver
CLSFP15BD1415180D

Product Features:

- Up to 155Mbps data links
- 180km with 9/125μm SMF *1
- T 1490nm/ R 1550nm DFB laser *1
- Simplex LC Connector
- Hot-pluggable SFP footprint
- Single 3. 3V power supply
- Operating temperature: Refer to *1
- 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	1480	1490	1500	nm
Spectral Width (-20dB)	σ			1	nm
Average Output Power	Pout	2		5	dBm
Extinction Ratio	ER	9			dB
Optical Rise/Fall Time	tr/tf			2	ns

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit
Centre Wavelength	λc	1540	1550	1560	nm
Receiver Sensitivity	APD			-40	dBm
Receiver Overload	PMAX	-7			dBm
LOS De-Assert	LOSD			-41	dBm
LOS Assert	LOSA	-45			dBm
LOS Hysteresis		0.5		4.5	dB

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	DDM	TX/RX	Fiber Type	Dist.	Temp.	Optical Interface
CLSFP15BD1415180D	155Mbps	yes	1490nm/1550nm	SMF	180km	-40~85°C	Simplex LC

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