

10Gbps 40KM SFP+ Transceiver

CLSFP1510GER

Product Features:

- Up to 10Gbps data links
- 40km with 9/125μm SMF
- 1550nm EML laser
- Duplex LC Connector
- Hot-pluggable SFP+ footprint
- Single 3.3V power supply
- Operating temperature: 0°C to 70°C
- RoHS
- Digital Diagnostic Monitor compatible
- Power Consumption < 1.5W

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
Centre Wavelength	λ_c	1530	1550	1570	nm	
Spectral Width (-20dB)	σ	-	-	1	nm	
Average Output Power	Pout	-2	-	5	dBm	
Extinction Ratio	ER	8	-	-	dB	
Average Launch Power of Off Transmitter	Poff	-	-	-30	dBm	

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Centre Wavelength	λ_c	1200	1550	1600	nm	
Receiver Sensitivity	PIN	-	-	-16	dBm	
Receiver Overload	Pmax	-1	-	-	dBm	
LOS De-Assert	LOSD	-	-	-21	dBm	
LOS Assert	LOSA	-25	-	-	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
CLSFP1510GER	10Gbps	yes	1550nm	SMF	40km	0~70°C	LC

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