25Gbps SFP28 60km Transceiver

CLSFP25GER60

Product Features:

- Supports 25GBASE(25Gb/s);
- Lane bit rate 25.78 Gb/s;
- Up to 60km transmission on SMF, with FEC support by host board;
- 1310nm laser and APD receiver;
- High speed I/O electrical interface (25GAUI);
- I2C interface with integrated Digital Diagnostic monitoring;
- SFP28 MSA package with duplex LC connector;
- Single +3.3V power supply; Maximum power consumption 1.5 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	λ0	1295	1310	1325	nm	
Average Launch Power	Pout	2	-	8	dBm	1,2
Spectral Width (-20dB)	σ	-	-	1	dBm	3
Average Output Power (Laser Turn off)	Pout-OFF	-	-	-30	dBm	
Side Mode Suppression Ratio	SMSR	30	-	-	dB	
Extinction Ratio	ER	4	-	-	dB	
Transmitter and dispersion penalty (TDP)	TDP	-	-	2.7	dB	
Optical Return Loss Tolerance	ORLT	-	-	20	dB	

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Center Wavelength	λ0	1295	1310	1325	nm	
Receiver sensitivity (OMA)		-	-	-20.0	dBm	5
Stress sensitivity (OMA)		-	-	-16.0	dBm	6
Receiver Overload	PIN-OL	-4	-	-	dBm	
Reflectance	Ref	-	-	-12	dB	
LOS Assert	LOSA	-26	-	-	dBm	
LOS De-assert	LOSD	-	-	-22	dBm	
LOS Hysteresis	LOSH	0.5	-	4	dB	

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	Laser	Fiber Type	Distance	Optical Interface	Temp	DDMI
CLSFP25GER60	25.78Gbps	1310nm	SMF	60km	LC Duplex	0~70 °C	Y

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