SFP+ 4.25/2.125/1.063G FC 1550nm 40km

CLSFP154GEX40

Product Features:

- Supports Data Rate up to 4.25Gbps;
- Up to 40km transmission on SMF;
- 1550nm laser and PIN receiver;
- Compliant with Digital Diagnostic monitoring;
- SFP MSA package with duplex LC connector;
- Single +3.3V power supply;
- Operating case temperature: 0 ~+70°C
- Compliant with SFP MSA Specification, SFF-8472 MSA
- Class 1 FDA and IEC60825-1 Laser Safety Compliant;

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	1530	1550	1570	nm	
Average Launch Power	Pout	-3	-	4	dBm	
Spectral Width (-20dB)	σ	-	-	1	dBm	
Average Output Power (Laser Turn off)	Pout-OFF	-	-	-30	dBm	
Side Mode Suppression Ratio	SMSR	30	-	-	dB	
Extinction Ratio	ER	5	-	-	dB	
Rise/Fall Time(20% 80%)	Tr/Tf			90s	ps	
Output Optical Eye*(note6)	Complies with ANSI FC-PI specification*(note3)					
TX_Disable rt Time	t_off			10	us	
Pout@TX Disable Asserted	Pout	-	-	-45	dBm	

Table 2 – Receiver Optical Specifications

Parameter		Symbol	Min.	Typical	Max.	Unit	Notes
Center Wavelength		λ0	1260		1600	nm	
Receiver sensitivity *(note7)	4FC	Pmin	-	-	-18.0	dBm	2
	2FC		-	-	-21.0	dBm	
	FC				-22.0	dBm	
Receiver Overload		Pmax	-1	-	-	dBm	
Reflectance		Ref	-	-	-27	dB	
LOS Assert		LOSA	-35	-	-	dBm	
LOS De-assert		LOSD	-	-	-19	dBm	

LOS Hysteresis	LOSH	0.5	-		dB	4

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	Laser	Fiber Type	Distance	Optical Interface	Temp	DDM
CLSFP154GEX40	4.25Gbps	1550nm	SMF	40km	LC Duplex	0~70 °C	Y

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