1.25Gbps 40km SFP Transceiver
CLSFP13GEEXD

Product Features:

- Up to 1.25Gbps data links
- 40km with 9/125μm SMF
- 1310nm FP laser
- Duplex LC Connector
- Hot-pluggable SFP footprint
- Single 3.3V power supply
- Operating temperature: Refer to Ordering info.
- RoHS
- Digital Diagnostic Monitor (DDM)

Applications:

- 1.25Gbps 1000Base-EX
- 1G/2G Fiber Channel

Functional Characteristics

The following tables list the performance specifications for the various functional blocks of the module.

Table 1 - Optical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Transmitter						
Centre Wavelength	λc	1260	1310	1360	nm	
Spectral Width (RMS)	σ			4	nm	
Average Output Power	Pout	-5		0	dBm	
Extinction Ratio	ER	9			dB	
Optical Rise/Fall Time	tr/tf			1	ns	
Receiver						
Centre Wavelength	λc	1200	1310	1600	nm	
Receiver Sensitivity	PIN			-23	dBm	
Receiver Overload	Pmax	1			dBm	
LOS De-Assert	LOSD			-30	dBm	
LOS Assert	LOSA	-35			dBm	
LOS Hysteresis		0.5		4.5	dB	

Table 2 - Electrical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Recommended Operating Conditions						
Operating Case Temperature	TC	0		70	℃	
Power Supply Voltage	VCC	3.15	3.3	3.45	V	
Power Supply Current	ICC			250	mA	
Data Rate			1.25	2.125	GBps	
Max Link Length on 9/125μm SMF	Lmax		40		km	
Transmitter						
Input Differential Impedance	Zin	90	100	110	Ω	
Data Input Swing Differential	Vin	500		2400	mV	
Tx-Dis Disable	Vd	2.0		Vcc	V	
Tx-Dis Enable	Ven	0		0.8	V	
TX-Fault (Fault)		2.0		Vcc+0.3	V	
TX-Fault (Normal)		0		0.8	V	
Receiver						
Data Output Swing Differential	Vout	370		2000	mV	
Rx-Los Fault	Vlf	2.0		Vcc+0.3	V	
Rx-Los Normal	Vln	0		0.8	V	

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	DDM	Wave	Fiber Type	Dist.	Temp.	Optical Interface
CLSFP13GEEXD	1.25Gbps	yes	1310nm	SMF	40km	0~70℃	LC

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