100Mbps MMF 2km SFP Transceiver

CLSFP1315FX

Product Features:

- Up to 100Mbps data links
- MMF 2km on OM3/OM4
- 1310nm FP laser
- Duplex LC Connector
- Hot-pluggable SFP footprint
- Single 3.3V power supply
- Operating temperature: 0°C to 70°C
- RoHS

Applications:

- SDH/SONET STM-1 I-1.1
- Fast Ethernet

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	1290	1310	1350	nm	
Spectral Width (RMS)	σ			4	nm	
Average Output Power	Pout	-9		-3	dBm	
Extinction Ratio	EX	9			dB	
Symmetric Jitter contributed by Transmitter				1.2	ns	
Duty cycle Distortion contributed by Transmitter				0.6	ns	
Data dependent jitter contributed by Transmitter				0.6	ns	
Random jitter contributed by Transmitter				0.7	ns	
Optical Rise/Fall Time	tr/tf			2	ns	
Receiver						
Centre Wavelength	λc	1260	1310	1600	nm	
Receiver Sensitivity	PIN			-24	dBm	
Receiver Overload	PMAX	0			dBm	
Symmetric Jitter contributed by Receiver				1.2	ns	
Duty cycle Distortion contributed by Receiver				0.6	ns	
Data dependent jitter contributed by Receiver				0.6	ns	

Random jitter contributed by Receiver				0.7	ns	
LOS De-Assert	LOSD			-28	dBm	
LOS Assert	LOSA	-40			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			100	155	Mbps	
Max Link Length on OM3/OM4	Lmax			2	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
CLSFP1315FX	100Mbps	yes	1310nm	MMF	2km	0~70℃	Duplex LC

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