

2.5Gbps 850nm MMF 550m SFP Transceiver

CLSFP85OC48SRI

Product Features:

- Up to 2.5Gbps data links
- Reach 550m on OM3/4 MMF
- 850nm VCSEL laser
- Duplex LC Connector
- Hot-pluggable SFP+ footprint
- Single 3.3V power supply
- Operating temperature: -40°C to 85°C
- RoHS
- Digital Diagnostic Monitor (DDM)
- Power Consumption < 0.8W

Applications:

- 2.5Gbps SR/SW Industrial

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	λ_c	840	850	860	nm	
Spectral Width (RMS)	σ			0.5	nm	
Average Output Power	Pout	-5		0	dBm	
Extinction Ratio	ER	7			dB	
Average Launch Power of Off Transmitter	Poff			-30	dBm	
Receiver						
Centre Wavelength	λ_c	840	850	860	nm	
Receiver Sensitivity	PIN			-18	dBm	PRBS 2 ³¹ -1, BER<10 ⁻¹²
Receiver Overload	Pmax	0.5			dBm	
LOS De-Assert	LOSD			-20	dBm	
LOS Assert	LOSA	-25			dBm	
LOS Hysteresis		0.5			dB	



Table 2 – Electrical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Recommended Operating Conditions						
Operating Case Temperature	TC	-40		85	°C	
Power Supply Voltage	VCC	3.15	3.3	3.45	V	
Power Supply Current	ICC			200	mA	
Data Rate			2.5		Gbps	
Max Link Length on OM3/4 MMF	Lmax			550	m	
Transmitter						
Input Differential Impedance	Zin	90	100	110	Ω	
Data Input Swing Differential	Vin	200		700	mV	
Tx-Dis Disable	Vd	2.0		Vcc	V	
Tx-Dis Enable	Ven	0		0.8	V	
Receiver						
Data Output Swing Differential	Vout	300		800	mV	
Rx-Los Fault	Vlf	2.0		Vcc Host	V	
Rx-Los Normal	Vln	0		0.8	V	
Output Rise and Fall Time	Tr, Tf	28			ps	

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	DDM	Wave	Fiber Type	Dist.	Temp.	Optical Interface
CLSFP85OC48SRI	2.5Gbps	yes	850nm	MMF	550m	-40~85°C	LC

CONTACT:

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