Part Number: SFP-100Base-LX
SFP-100Base-LX-IND

Quick Spec:

Form Factor:	SFP
TX Wavelength:	1310nm
Reach:	10km
Cable Type:	MMF
Rate Category:	100Base
Interface Type:	LX
DDM:	No
Connector Type:	Dual-LC

Features:

- Hot-Pluggable Capability
- Single +3.3V Power Supply
- Compliant with Specifications for IEEE802.3Z
- Eye Safety Designed to Meet Laser Class1,
- Compliant with IEC60825-1
- Operating Temperature
  - Standard 0°C ~+70°C
  - Industrial -40°C ~+85°C

Applications

- Fast Ethernet
- SDH/SONET

Specification
Electrical and Optical Characteristics: (Condition: Ta=TOP)

Parameter	Symbol	Min.	Typical	Max.	Unit
Transmitter Differential Input Volt	+/-TX_DAT	200		2400	mV p-p
Supply Current	I_{CC}		200	300	mA
Tx_Disable Input Voltage – Low	V_{IL}	0		0.8	V
Tx_Disable Input Voltage – High	V_{IH}	2.0		Vcc	V
Tx_Fault Output Voltage – Low	V_{OL}	0		0.8	V
Tx_Fault Output Voltage – High	V_{OH}	2.0		Vcc	V
Receiver Differential Output Volt	+/-RX_DAT	600		1400	mV p-p
Rx_LOS Output Voltage- Low	V_{OL}	0		0.8	V
Rx_LOS Output Voltage- High	V_{OH}	2.0		Vcc	V

TX					
Parameter	**Symbol**	**Min**	**Typ**	**Max**	**Unit**
Data Rate	B	-	155	-	Mb/s
Centre wavelength	λc	1270	1310	1355	nm
Output Spectral Width	Δλ	-	-	4	nm
Average Output Power	P_o	-15	-	-8	dBm
Extinction Ratio	EXT	9	-	-	dB
Data Input Voltage-High	V_{IHS}	V_{cc}-1.16	-	V_{cc}-0.89	V
Data Input Voltage -Low	V_{ILS}	V_{cc}-1.82	-	V_{cc}-1.48	V
Supply Current	I_{CC}	-	90	150	mA
Output Optical Eye	Compliant with IEEE802.3Z				

RX					
Parameter	**Symbol**	**Min**	**Typ**	**Max**	**Unit**
Receive Sensitivity	P_{min}	-	-	-28	dBm
Maximum Input Power	P_{MAX}	-8	-	-	dBm
Signal Detect Threshold-	SD_{HIGH}	-	-	-34	dBm
Signal Detect Threshold-	SD_{LOW}	-44	-	-	dBm
Hysteresis	-	-	3.0	-	dBm
Output High Voltage	V_{OH}	V_{cc}-1.03	-	V_{cc}-0.89	V
Output Low Voltage	V_{OL}	V_{cc}-1.82	-	V_{cc}-1.63	V
Operating Wavelength	λc	1100	-	1600	nm
Supply Current	I_{CC}	-	80	110	mA

Absolute Maximum Ratings

Parameter	Symbol	Min.	Max.	Unit
Storage Temperature	T_{ST}	-40	+85	℃
Operating Temperature (Standard)	T_{IP}	0	+70	℃
Operating Temperature (Industrial)	T_{IP}	-40	+85	℃
Input Voltage	T_{CC}	0	+5	V

Recommended Operating Environment

Parameter		Symbol	Min.	Typical	Max.	Unit
Supply Voltage		V_{CC}	+3.1	+3.3	+3.5	V
Operating Temperature		T_{OP}	0	-	+70	℃