Part Type: SFP-100Base-FX
SFP-100Base-FX-IND

Quick Spec:

Form Factor:	SFP
TX Wavelength:	1310nm
Reach:	2km
Cable Type:	MMF
Rate Category:	100Base
Interface Type:	FX
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
- Case operating temperature
  - Standard: 0˚C to +70˚C
  - Industrial: -40˚C to +85˚C

Applications:

- Switch to Switch Interface
- Fast Ethernet
- Switched Backplane Applications
- Router/Server Interface
- Other Optical Link

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	100	155	155	Mb/s
Centre wavelength	λc	1270	1310	1355	nm
Output Spectral Width	Δλ	-	-	4	nm
Average Output Power	P_o	-20	-	-14	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}	-	-	-31	dBm
Maximum Input Power	P_{MAX}	-14	-	-	dBm
Signal Detect Threshold-Assertion:	SD_{HIGH}	-	-	-34	dBm
Signal Detect Threshold-Deassertion:	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	℃