

**PRE-SFP-10, PRE-SFP-10I**  
SFP, LX, 1310nm, 10km, 1.25 Gbps



**Product Features:**

- FP Transmitter
- PIN Receiver
- SMF Transmission Medium
- Digital Diagnostic Monitoring (DDM)
- C-Temp and I-Temp Available



**Product Applications:**

- 1G Ethernet

**General Specifications**

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Commercial)	T <sub>op</sub>	0	-	70	°C
Case Operating Temperature (Industrial)	T <sub>op</sub>	-40	-	85	°C
Power Consumption	P <sub>w</sub>	-	-	1	W
Power Supply Current	I <sub>cc</sub>	-	-	280	mA
Power Supply Voltage	V <sub>cc</sub>	3.13	3.3	3.47	V
Storage Humidity	H <sub>s</sub>	5	-	95	%
Storage Temperature	T <sub>s</sub>	-40	-	85	°C
Transmission Distance	TD	-	-	10	km
Data Rate (Total)	DR <sub>T</sub>	-	-	1.25	Gbps

### Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength	$\lambda_c$	1270	1310	1360	nm
Transmit Power	$P_{OUT}$	-9	-	-3	dBm
Spectral Width	$\sigma$	-	-	3.5	nm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Dispersion Penalty	DP	-	-	3	dB
Extinction Ratio	ER	9	-	-	dB
Relative Intensity Noise	RIN	90	100	110	dB/Hz
Transmitter OFF Output Power	$P_{OFF}$	-	-	-45	dB

### Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength	$\lambda_r$	1270	-	1610	nm
Damage Threshold	$P_D$	5	-	-	dBm
Input Saturation Power	$P_{SAT}$	-3	-	-	dBm
Receiver Sensitivity	R	-	-	-19	dBm
LOS Assert	$LOS_A$	38	-	-	dBm
LOS De-Assert	$LOS_D$	-	-	-20	dBm
LOS Hysteresis	$LOS_H$	0.5	2	6	dB

### Product Ordering Information

Part Number	Description
PRE-SFP-10	SFP, LX, 1310nm, 10km, 1.25 Gbps, C-Temp
PRE-SFP-10I	SFP, LX, 1310nm, 10km, 1.25 Gbps, I-Temp