

PRE-SFP-120, PRE-SFP-120I

SFP, 1550nm, 120km, 1.25 Gbps



Product Features:

- DFB Transmitter
- APD 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_{op}	0	-	70	°C
Power Consumption	P_w	-	-	1	W
Power Supply Current	I_{cc}	-	-	300	mA
Power Supply Voltage	V_{cc}	3.13	3.3	3.47	V
Storage Humidity	H_s	5	-	95	%
Storage Temperature	T_s	-40	-	85	°C
Transmission Distance	TD	-	-	120	km
Data Rate (Total)	DR_T	-	-	1.25	Gbps

Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength	λ_c	1530	1550	1570	nm
Transmit Power	P_{OUT}	0	-	5	dBm
Spectral Width	σ	-	-	1	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	λ_r	1270	-	1610	nm
Damage Threshold	P_D	5	-	-	dBm
Input Saturation Power	P_{SAT}	-10	-	-	dBm
Receiver Sensitivity	R	-	-	-32	dBm
LOS Assert	LOS_A	-40	-	-	dBm
LOS De-Assert	LOS_D	-	-	-34	dBm
LOS Hysteresis	LOS_H	0.5	2.0	6.0	dB

Product Ordering Information

Part Number	Description
PRE-SFP-120	SFP, 1550nm, 120km, 1.25 Gbps, C-Temp
PRE-SFP-120I	SFP, 1550nm, 120km, 1.25 Gbps, I-Temp