

## PRE-SFP-Cxx-120

SFP+, CWDM, 1270nm – 1610nm, SMF, 120km, 1.25Gbps



### Product Features:

- DFB Transmitter
- APD Receiver
- 20nm ITU CWDM Grid
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)



### Product Applications:

- 1G Ethernet

### General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Commercial)	$T_{op}$	0	-	70	°C
Power Supply Current	$I_{cc}$	-	-	300	mA
Power Supply Voltage	$V_{cc}$	3.14	3.3	3.46	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

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### Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength	$\lambda_c$	$\lambda_c - 7.5$	-	$\lambda_c + 7.5$	nm
Transmit Power	$P_{OUT}$	0	-	5	dBm
Spectral Width	$\sigma$	-	-	1	nm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Extinction Ratio	ER	9	-	-	dB
Relative Intensity Noise	RIN	90	100	110	dB/Hz
Transmitter OFF Output Power	$P_{OFF}$	-	-	-45	dBm

### Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength	$\lambda_r$	1270	-	1610	nm
Input Saturation Power	$P_{SAT}$	-10	-	-	dBm
Receiver Sensitivity	R	-	-	-32	dBm
LOS Assert	$LOS_A$	-40	-	-	dBm
LOS De-Assert	$LOS_D$	-	-	-33	dBm
LOS Hysteresis	$LOS_H$	0.5	2	6	dB

### Product Ordering Information

Part Number	Description
PRE-SFP-Cxx-120	SFP+, CWDM, 1270nm – 1610nm, SMF, 120km, 1.25Gbps, C-Temp