

PRE-SFP-OC12-40, PRE-SFP-OC12-40I
SFP, 1310nm, SMF, 40km, 622Mbps



Product Features:

- DFB Transmitter
- PIN Receiver
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)
- C-Temp and I-Temp Available
- Supports Bit Rates up to 622Mbps



Product Applications:

- SONET/SDH
- 100M Ethernet

General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Commercial)	T_{op}	0	-	70	°C
Case Operating Temperature (Industrial)	T_{op}	-40	-	85	°C
Power Consumption	P_w	-	-	1.0	W
Power Supply Current	I_{cc}	-	-	280	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	-	-	40	km
Data Rate (Total)	DR_T	-	0.622	-	Gbps

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**Optical Characteristics: Transmitter**

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength	λ_c	1290	1310	1330	nm
Transmit Power	P_{OUT}	-5	-	0	dBm
Spectral Width	σ	-	1	-	nm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Extinction Ratio	ER	8.2	-	-	dB
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}	-3	-	-	dBm
Receiver Sensitivity	R		-	-28	dBm
LOS Assert	LOS_A	-40	-	-	dBm
LOS De-Assert	LOS_D	-	-	-29	dBm
LOS Hysteresis	LOS_H	0.5	2	6	dB

Product Ordering Information

Part Number	Description
PRE-SFP-OC12-40	SFP, 1310nm, SMF, 40km, 622Mbps, C-Temp
PRE-SFP-OC12-40I	SFP, 1310nm, SMF, 40km, 622Mbps, I-Temp