

PRE-SFP-B45-40(I), PRE-SFP-B54-40(I)
SFP, BIDI, 1490/1550nm, SMF, 40km, 1.25Gbps

Product Features:

- DFB Transmitter
- PIN Receiver
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics 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
Case Operating Temperature (Industrial)	T _{op}	-40	-	85	°C
Power Supply Voltage	V _{cc}	3.13	3.3	3.47	V
Power Supply Current	I _{cc}	-	-	280	mA
Storage Humidity	H _s	5	-	95	%
Storage Temperature	T _s	-40	-	85	°C
Transmission Distance	TD	-	-	40	km
Data Rate (Total)	DR _T	-	1.25	-	Gbps

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Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength (B45)	λ_c	1470	1490	1510	nm
Center Wavelength (B54)	λ_c	1530	1550	1570	nm
Transmit Power	P_{OUT}	-5	-	0	dBm
Spectral Width	σ	-	-	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	dB

Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength (B45)	λ_r	1530	1550	1570	nm
Receiver Wavelength (B54)	λ_r	1470	1490	1510	nm
Damage Threshold	P_D	5	-	-	dBm
Input Saturation Power	P_{SAT}	-1	-	-	dBm
Receiver Sensitivity	R	-	-	-24	dBm
LOS Assert	LOS_A	-38	-	-	dBm
LOS De-Assert	LOS_D	-	-	-25	dBm
LOS Hysteresis	LOS_H	0.5	2	6	dB

Product Ordering Information

Part Number	Description
PRE-SFP-B45-40	SFP, BIDI, 1490nm Tx/1550nm Rx, SMF, 40km, 1.25Gbps, C-Temp
PRE-SFP-B45-40I	SFP, BIDI, 1490nm Tx/1550nm Rx, SMF, 40km, 1.25Gbps, I-Temp
PRE-SFP-B54-40	SFP, BIDI, 1550nm Tx/1490nm Rx, SMF, 40km, 1.25Gbps, C-Temp
PRE-SFP-B54-40I	SFP, BIDI, 1550nm Tx/1490nm Rx, SMF, 40km, 1.25Gbps, I-Temp