

**PRE-SFP-B34-40(I), PRE-SFP-B43-40(I)**  
SFP, BIDI, 1310/1490nm, 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 <sub>op</sub>	0	-	70	°C
Case Operating Temperature (Industrial)	T <sub>op</sub>	-40	-	85	°C
Power Supply Voltage	V <sub>cc</sub>	3.13	3.3	3.47	V
Power Supply Current	I <sub>cc</sub>	-	-	280	mA
Storage Humidity	H <sub>s</sub>	5	-	95	%
Storage Temperature	T <sub>s</sub>	-40	-	85	°C
Transmission Distance	TD	-	-	40	km
Data Rate (Total)	DR <sub>T</sub>	-	1.25	-	Gbps

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### Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength (B34)	$\lambda_c$	1290	1310	1330	nm
Center Wavelength (B43)	$\lambda_c$	1470	1490	1510	nm
Transmit Power	$P_{OUT}$	-5	-	-0	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	dB

### Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength (B34)	$\lambda_r$	1470	1490	1510	nm
Receiver Wavelength (B43)	$\lambda_r$	1290	1310	1330	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-B34-40	SFP, BIDI, 1310nm Tx/1490nm Rx, SMF, 40km, 1.25Gbps, C-Temp
PRE-SFP-B34-40I	SFP, BIDI, 1310nm Tx/1490nm Rx, SMF, 40km, 1.25Gbps, I-Temp
PRE-SFP-B43-40	SFP, BIDI, 1490nm Tx/1310nm Rx, SMF, 40km, 1.25Gbps, C-Temp
PRE-SFP-B43-40I	SFP, BIDI, 1490nm Tx/1310nm Rx, SMF, 40km, 1.25Gbps, I-Temp