

## PRE-SFP-B35-10, PRE-SFP-B53-10

SFP, BIDI, 1310nm Tx/1550nm Rx, SMF, 10km, 1.25Gbps

SFP, BIDI, 1550nm Tx/1310nm Rx, SMF, 10km, 1.25Gbps

### Product Features:

- FP Transmitter (B35)
- DFB Transmitter (B53)
- 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	-	-	10	km
Data Rate (Total)	$DR_T$	-	1.25	-	Gbps

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### Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength (B35)	$\lambda_c$	1260	1310	1360	nm
Center Wavelength (B53)	$\lambda_c$	1530	1550	1570	nm
Transmit Power	$P_{OUT}$	-9	-	-3	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 (B35)	$\lambda_r$	1530	1550	1570	nm
Receiver Wavelength (B53)	$\lambda_r$	1260	1310	1360	nm
Damage Threshold	$P_D$	5	-	-	dBm
Input Saturation Power	$P_{SAT}$	-3	-	-	dBm
Receiver Sensitivity	R	-	-	-20	dBm
LOS Assert	$LOS_A$	-35	-	-	dBm
LOS De-Assert	$LOS_D$	-	-	-21	dBm
LOS Hysteresis	$LOS_H$	0.5	2	6	dB

### Product Ordering Information

Part Number	Description
PRE-SFP-B35-10	SFP, BIDI, 1310nm Tx/1550nm Rx, SMF, 10km, 1.25Gbps, C-Temp
PRE-SFP-B35-10I	SFP, BIDI, 1310nm Tx/1550nm Rx, SMF, 10km, 1.25Gbps, I-Temp
PRE-SFP-B53-10	SFP, BIDI, 1550nm Tx/1310nm Rx, SMF, 10km, 1.25Gbps, C-Temp
PRE-SFP-B53-10I	SFP, BIDI, 1550nm Tx/1310nm Rx, SMF, 10km, 1.25Gbps, I-Temp