

## PRE-CSFP2-B34(43)-20(I)

CSFP, Dual BIDI, 1310nm/1490nm, SMF, 20km, 1.25Gbps

### Product Features:

- 1310nm FP Transmitters (B34)
- 1490nm DFP Transmitters (B43)
- PIN Receivers
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)
- C-Temp and I-Temp Available
- CSFP Option 2



### 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
Storage Humidity	H <sub>s</sub>	5	-	95	%
Storage Temperature	T <sub>s</sub>	-40	-	85	°C
Transmission Distance	TD	-	-	20	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	$\lambda_c$	1260	1310	1360	nm
	$\lambda_{c2}$	1480	1490	1500	
Transmit Power	$P_{OUT}$	-9	-	-3	dBm
Spectral Width (-20dB)	$\sigma$	-	-	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	$\lambda_r$	1480	1490	1500	nm
	$\lambda_{r2}$	1260	1310	1360	
Damage Threshold	$P_D$	3	-	-	dBm
Input Saturation Power	$P_{SAT}$	-3	-	-	dBm
Receiver Sensitivity	R	-	-	-19.5	dBm
LOS Assert	$LOS_A$	-35	-	-	dBm
LOS De-Assert	$LOS_D$	-	-	-22	dBm
LOS Hysteresis	$LOS_H$	0.5	2	6	dB

### Product Ordering Information

Part Number	Description
PRE-CSFP2-B34-20	CSFP2, Option 2, 1310nm Tx/1490nm Rx, LX, SMF, 20km, 1.25G, C-Temp, LC, DDM
PRE-CSFP2-B34-20I	CSFP2, Option 2, 1310nm Tx/1490nm Rx, LX, SMF, 20km, 1.25G, I-Temp, LC, DDM
PRE-CSFP2-B43-20	CSFP2, Option 2, 1490nm Tx/1310nm Rx, LX, SMF, 20km, 1.25G, C-Temp, LC, DDM
PRE-CSFP2-B43-20I	CSFP2, Option 2, 1490nm Tx/1310nm Rx, LX, SMF, 20km, 1.25G, I-Temp, LC, DDM