

PRE-SFP10G-Bxx-80, PRE-SFP10G-Bxx-80I
 SFP+, 1490nm/1550nm, BIDI, SMF, 80km, 10Gbps



Product Features:

- 1490 or 1550nm EML Transmitter
- APD Receiver
- SMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)
- C-Temp and I-Temp Available
- Supports bit rates up to 11.3Gbps
- <1.8W Power Dissipation



Product Applications:

- 10G Ethernet
- SONET SDH
- OTN Transport

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 (Commercial)	P_w	-	-	1.5	W
Power Consumption (Industrial)	P_w	-	-	1.8	W
Power Supply Current (Commercial)	I_{cc}	-	-	450	mA
Power Supply Current (Industrial)	I_{cc}	-	-	550	mA
Power Supply Voltage	V_{cc}	3.14	3.3	3.46	V
Storage Humidity	H_s	5	-	95	%
Storage Temperature	T_s	-40	-	85	°C
Transmission Distance	TD	-	-	80	km
Data Rate (Total)	DR_T	-	10.3125	11.3	Gbps

Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength (B45)	λ_c	1480	1490	1500	nm
Center Wavelength (B54)	λ_{c2}	1540	1550	1560	nm
Transmit Power (B45)	P_{OUT}	0	-	4	dBm
Transmit Power (B54)	P_{OUT}	-1	-	3	dBm
Spectral Width	σ	-	-	0.3	nm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Extinction Ratio	ER	7.5	-	-	dB
Transmitter OFF Output Power	P_{OFF}	-	-	-30	dBm

Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Rx Wavelength (B45)	λ_c	1480	1490	1500	nm
Rx Wavelength (B54)	λ_{c2}	1540	1550	1560	nm
Input Saturation Power	P_{SAT}	-6	-	-	dBm
Receiver Sensitivity	R	-	-	-23	dBm
LOS Assert	LOS_A	-38	-	-	dBm
LOS De-Assert	LOS_D	-	-	-24	dBm
LOS Hysteresis	LOS_H	0.5	-	8	dB

Product Ordering Information

Part Number	Description
PRE-SFP10G-B45-80	SFP+, 1490nm Tx/1550nm Rx, BIDI, SMF, 80km, 10Gbps, C-Temp
PRE-SFP10G-B54-80I	SFP+, 1550nm Tx/1490nm Rx, BIDI, SMF, 80km, 10Gbps, I-Temp
PRE-SFP10G-B45-80	SFP+, 1490nm Tx/1550nm Rx, BIDI, SMF, 80km, 10Gbps, C-Temp
PRE-SFP10G-B54-80I	SFP+, 1550nm Tx/1490nm Rx, BIDI, SMF, 80km, 10Gbps, I-Temp