PRE-SFP10G-B45(54)-80(I)

SFP+, ZR, BIDI, 1490/1550, 10G, 80km, SMF/LC

Product Features:

- EML Transmitter
- APD Receiver
- 1490 or 1550nm Transmitter
- SMF Transmission Medium
- LC/UPC Simplex Connector
- Digital Diagnostic Monitoring
- C and I-Temp Available
- 11.1Gbps Maximum Data Rate
- <1.8W Power Consumption

Product Applications:

- Backhaul Networks
- Enterprise Networks
- 10GBASE-ZR Ethernet

Standards:

- IEEE 802.3ae
- SFF-8431/8472
- RoHS

General Specifications

Parameter	Min	Typical	Max	Unit
Case Operating Temperature (C-Temp)	-10	-	70	°C
Case Operating Temperature (I-Temp)	-40	-	85	°C
Power Consumption (C-Temp)	-	-	1.5	W
Power Consumption (I-Temp)	-	-	1.8	W
Power Supply Voltage	3.14	3.3	3.47	V
Operating Humidity	5	-	85	%
Storage Temperature	-40	-	85	°C
Transmission Distance	-	-	80	km
Data Rate (Total)	-	10.3125	11.1	Gbps

Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit
Center Wavelength	λ – 7.5	λ	λ + 7.5	nm
Transmit Power (1490nm)	0	-	4	dBm
Transmit Power (1550nm)	-1	-	3	dBm
Extinction Ratio	7.5	-	-	dB
Spectral Width (-20dB)	-	-	0.3	nm
SMSR	-	-	-	dB
Transmit Power (Poff)	-	-	-30	dBm

Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Receiver Wavelength (1550)	1480	1490	1500	nm
Receiver Wavelength (1490)	1540	1550	1560	nm
Input Saturation Power	-6	-	-	dBm
Receiver Sensitivity	-	-	-23	dBm
LOS Assert	-38	-	-	dBm
LOS De-Assert	-	-	-24	dBm
LOS Hysteresis	0.5	-	8	dB

Product Ordering Information

Part Number	Description
PRE-SFP10G-B45-80	SFP+, ZR, BIDI, 1490/1550, 10G, 80km, SMF/LC, C-Temp
PRE-SFP10G-B54-80	SFP+, ZR, BIDI, 1550/1490, 10G, 80km, SMF/LC. C-Temp
PRE-SFP10G-B45-80I	SFP+, ZR, BIDI, 1490/1550, 10G, 80km, SMF/LC, I-Temp
PRE-SFP10G-B54-80I	SFP+, ZR, BIDI, 1550/1490, 10G, 80km, SMF/LC, I-Temp