

**PRE-SFP10G-Bxx-40, PRE-SFP10G-Bxx-40I**  
SFP+, 1270nm/1330nm, BIDI, SMF, 40km, 10Gbps



**Product Features:**

- 1330 or 1270nm DFB Transmitter
- PIN 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
- <1.0W 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	$P_w$	-	-	1	W
Power Supply Current	$I_{cc}$	-	-	300	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	-	-	40	km
Data Rate (Total)	$DR_T$	-	10.3125	11.3	Gbps

### Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength (B23)	$\lambda_c$	1260	1270	1280	nm
Center Wavelength (B32)	$\lambda_{c2}$	1320	1330	1340	nm
Transmit Power	$P_{OUT}$	0.0	-	5	dBm
Spectral Width	$\sigma$	-	-	1	nm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Extinction Ratio	ER	3.5	-	-	dB
Transmitter OFF Output Power	$P_{OFF}$	-	-	-30	dBm

### Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Rx Wavelength (B23)	$\lambda_c$	1320	1330	1340	nm
Rx Wavelength (B32)	$\lambda_{c2}$	1260	1270	1280	nm
Input Saturation Power	$P_{SAT}$	0.5	-	-	dBm
Receiver Sensitivity	R	-	-	-15	dBm
LOS Assert	$LOS_A$	-30	-	-	dBm
LOS De-Assert	$LOS_D$	-	-	-17	dBm
LOS Hysteresis	$LOS_H$	0.5	-	-	dB

### Product Ordering Information

Part Number	Description
PRE-SFP10G-B23-40	SFP+, 1270nm Tx/1330nm Rx, BIDI, SMF, 40km, 10Gbps, C-Temp
PRE-SFP10G-B32-40	SFP+, 1330nm Tx/1270nm Rx, BIDI, SMF, 40km, 10Gbps, C-Temp
PRE-SFP10G-B23-40I	SFP+, 1270nm Tx/1330nm Rx, BIDI, SMF, 40km, 10Gbps, I-Temp
PRE-SFP10G-B32-40I	SFP+, 1330nm Tx/1270nm Rx, BIDI, SMF, 40km, 10Gbps, I-Temp