

PRE-SFP10G-Bxx-10, PRE-SFP10G-Bxx-10I

SFP+, 1270nm/1330nm, BIDI, SMF, 10km, 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
- CPRI
- Fiber Channel

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	-	-	10	km
Data Rate (Total)	DR_T	-	10.3125	11.3	Gbps

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**Optical Characteristics: Transmitter**

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength (B23)	λ_c	1260	1270	1280	nm
Center Wavelength (B32)	λ_{c2}	1320	1330	1340	nm
Transmit Power	P_{OUT}	-6	-	-1	dBm
Spectral Width	σ	-	-	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)	λ_c	1320	1330	1340	nm
Rx Wavelength (B32)	λ_{c2}	1260	1270	1280	nm
Input Saturation Power	P_{SAT}	0.5	-	-	dBm
Receiver Sensitivity	R	-	-	-14.4	dBm
LOS Assert	LOS_A	-30	-	-	dBm
LOS De-Assert	LOS_D	-	-	-17	dBm
LOS Hysteresis	LOS_H	0.5	1	-	dB

Product Ordering Information

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