XFP-10G-BX20-SY

10GBASE-BIDI LR XFP, 20 km SMF TRANSCEIVER

1. FEATURES AND SPECIFICATIONS

- Form Factor: **XFP**
- Operating Data Rate: **10G**
- Protocol(s): **10GE, FC, SONET (OC-192), SDH (STM64)**
- Fiber Type: **SMF**
- Technique: **BIDI LR**
- Lane Count: **1**
- Wavelength(s)/Channel(s): **U: ^{Tx}1270 nm/^{Rx}1330 nm**
  D: ^{Tx}1330 nm/^{Rx}1270 nm
- Nominal Distance: **20 km**
- Nominal Power Budget: **9.4 dB**
- Connector: **LC simplex**
- Temperature Range: **0 to +70°C, -40 to +85°C**
- Compliance: **XFP MSA, INF-8077i**
- Monitoring: **Digital diagnostic monitor interface**
- Laser Type: **DFB**
- Receiver Type: **PIN**
- Power Dissipation: **2 W**

2. ABSOLUTE CHARACTERISTICS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SIGNAL INPUT VOLTAGE	V_{IN}	0.1	-	0.8	V
POWER SUPPLY VOLTAGE	V_{CC}	-0.3	-	4	V
OPERATING TEMPERATURE	T_{CASE}	0	-	+70	°C
STORAGE TEMPERATURE	T_S	-40	-	+85	°C

3. ELECTRICAL OPERATING CONDITIONS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SUPPLY CURRENT	I_{CC}	-	-	4.5	A
SUPPLY VOLTAGE	V_{CC}	3.13	3.3	3.47	V

4. OPTICAL CHARACTERISTICS

RECEIVER

PARAMETER	SYMBOL		MIN.	TYP.	MAX.	UNIT
OPTICAL WAVELENGTH	λC	U-2733 D-3327	1320 1260	1330 1270	1340 1280	nm
LOS HYSTERESIS	LOS_H		1	-	5	dB
LOS ASSERT	LOS_A		-30	-	-	dBm
LOS DE-ASSERT	LOS_D		-	-	-18	dBm
RX MAX. SENSITIVITY	P_{MIN}		-	-	-14.4	dBm
DAMAGE THRESHOLD	P_{MAX}		0.5	-	-	dBm

TRANSMITTER

PARAMETER	SYMBOL		MIN.	TYP.	MAX.	UNIT
OPTICAL WAVELENGTH	λC	U-2733 D-3327	1260 1320	1270 1330	1280 1340	nm
OPTICAL EXTINCTION RATIO	ER		3.5	6	-	dB
SIDE MODE SUPPRESSION RATIO	SMSR		30	-	-	dBm
SPECTRAL WIDTH	Δλ		-	-	1	dBm
OPTICAL TRANSMIT POWER	P_{OUT}		-5	-	0	dBm

5. ORDERING INFORMATION

PART NAME	DESCRIPTION
XFP-10G-BX20U-SY	10GBase BIDI LR XFP, ^{Tx}1270 nm/^{Rx}1330 nm, 20 km over SMF, LC simplex, speeddy
XFP-10G-BX20U-I-SY	10GBase BIDI LR XFP, ^{Tx}1270 nm/^{Rx}1330 nm, 20 km over SMF, LC simplex, Industrial temperature -40 to +85°C, speeddy
XFP-10G-BX20D-SY	10GBase BIDI LR XFP, ^{Tx}1330 nm/^{Rx}1270 nm, 20 km over SMF, LC simplex, speeddy
XFP-10G-BX20D-I-SY	10GBase BIDI LR XFP, ^{Tx}1330 nm/^{Rx}1270 nm, 20 km over SMF, LC simplex, Industrial temperature -40 to +85°C, speeddy

6. COMPATIBILITY

ADVA (1061701891-01, 1061701892-01), AVAYA/NORTEL (AA1403001-E5, AA1403001-E5), BROCADE / RUCKUS (10G-XFP-LR, 10G-XFP-LR), CALIX (100-02139, 100-03898), CISCO SYSTEMS (XFP-10GLR-OC192SR, XFP-10GLR-OC192SR), EXTREME (10122, 10122), EXTREME/ENTERASYS (10GBASE-LR-XFP, 10GBASE-LR-XFP), FORTINET (FG-TRAN-XFPLR, FG-TRAN-XFPLR), HP H3C (JD108B, JD108B), HUAWEI (OSX010B00, OSX010B01), JUNIPER (XFP-10GE-LR, XFP-10GE-LR), MSA (XFP-10G-BX20D, XFP-10G-BX20U), NET INSIGHT (NPA0038-SR11), NOKIA SIEMENS NETWORKS (V50017-U770-K500, V50017-U770-K500), NOKIA/ALCATEL-LUCENT (3HE05831CA, 3HE05831CA)

7. WARNINGS AND SECURITY INFORMATION

CAUTION: Class 1 visible laser radiation present. Long term viewing of the laser can be harmful to the human eye.

CE

This equipment has been tested according to European legislation and has been found safe, non-intervening with other electronic devices and is not subject to interference from other electronic devices

RoHS 2002/95/EC

Hazardous Goods; our products are fully compliant with Directive 2011/65/EU (RoHS II) and 2002/95 EC (RoHS I)

Laser Class 1

Our products comply with 21 CFR 1040.10 and 1040.11, except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

Only (dis)connect the transceivers in an ESD Protected Area while using certified equipment and taking all necessary precautions as specified in IEC 61340-5-1.

6. DISCLAIMER AND LEGAL NOTICES