

DATA SHEET

SFP+ 10G CWDM 80KM C-TEMP TRANSCEIVER

DESCRIPTION

This transceiver is designed for CWDM links up to 80Km on G.652D SMF fiber designed for CPRI, 10GBASE-ZR, SDH/SONET, OTN and 10G Fiber Channel applications. Module is compliant with SFF-8431 Rev 4.1, SFF-8432 and SFF-8472 Rev 10.3. The transmitter incorporates a cooled EML laser and the receiver consists of a APD photodiode integrated with TIA .

Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472, which allows real-time access to device operating parameters such as case temperature, laser bias current, transmitted optical power, received optical power and module supply voltage.



KEY FEATURES

- Up to 10.3Gb/s bi-directional data links
- Up to 80km on G.652D SMF
- Electrical interface specifications per SFF-8432
- Management interface specifications per SFF-8432 and SFF-8472
- SFP+ MSA package with duplex LC connector
- Cooled EML transmitter and APD receiver
- Single +3.3V power supply
- Class 1 laser safety certified
- Operating temperature: 0°C to +70°C commercial
- RoHS Compliant

APPLICATIONS

- 10G SONET/SDH/OTN
- 10G Ethernet
- 10G Fiber Channel
- 80km 10G CWDM Network

COMPLIANCES

- Compliant to SFF-8402, SFF-8432.
- Compliant to IEEE802.3ba
- DDM Compliant with SFF-8472 SFP+ MSA.
- RoHS Compliant6

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	0		+70	°C
Storage Temperature	-40	-----	+85	°C
Operation Humidity*	5	-----	95	%
Storage Humidity	5	-----	95	%

(*) not condensing

OPERATING SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Supply Voltage	3.135	+3.3	+3.465	V
Power Dissipation			1.5	W
Transmission Distance			80	Km

OPTICAL SPECIFICATIONS

BOOSTER

Parameter	Min.	Typ.	Max.	Unit
Wavelength	1260	-	1620	nm
Average Optical Power	0		4	dBm
Side Mode Suppression Ratio	30			dB
Extinction Ratio (ER)	6			dB
Transmitter and Dispersion Penalty			2	dB

PREAMPLIFIER

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1260	-	1620	nm
Receiver Sensitivity			-22	dBm
LOSA	-34			dBm
LOSD			-24	dBm
Hysteresis	0.5			dB

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ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPSP10ZRLCC000Cxx	SFP+	10G	80Km	DDM/RoHS

xx = channel number (CWDM grid)

For additional information, visit jabil.com/photonics