

DATA SHEET

CFP2 PLUGGABLE EDFA

DESCRIPTION

The Jabil Photonics CFP2 form factor EDFA is a pluggable CFP2 product designed for single channel or C-band DWDM amplification in Telecom, Datacom or CATV applications. It is designed to be compatible with CFP2 MSA on mechanical and electrical interface.

The CFP2 EDFA supports the constant gain working mode and can monitor the input and output optical power in real time, supporting optical safety functionality by signal loss detection and alarm at any input port, fast power down control and reduced max output power in safe power mode.

Booster or preamplifier versions are available.



KEY FEATURES

CFP2 form factor, super compact form factor

1529-1561nm, DWDM Application

Preamplifier or Booster version

Output power up to 20dBm (Booster)

Output power up to 10dBm (Preamplifier)

Highly integrated passive component and ultra small form factor pump

Constant gain operation mode

Operating temperature -40°C to 65°C

APPLICATIONS

DWDM application with GFF

CATV

DATA SHEET

CFP2 PLUGGABLE EDFA

ENVIRONMENTAL SPECIFICATIONS

| Parameter | Min. | Typ. | Max. | Unit |
|-----------------------|------|-------|------|------|
| Operation Temperature | -40 | 25 | +65 | °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 | 3.1 | +3.3 | +3.5 | V |
| Power Dissipation | 5.8 | 8 | 11 | W |

OPTICAL SPECIFICATIONS

PREAMPLIFIER

| Parameter | Min. | Typ. | Max. | Unit |
|------------------------------|------|------|------|------|
| Wavelength | 1529 | | 1561 | nm |
| Input Power | -35 | | -10 | dBm |
| Output Power | -7 | | 10 | dBm |
| Output Power Variation | -0.3 | | 0.3 | dB |
| Gain | | 20 | | dB |
| Gain Flatness (peak to peak) | | | 1.3 | dB |
| Gain Accuracy | -0.5 | | 0.5 | dB |
| Noise Figure | | | 6.0 | dB |
| PDL | | | 0.3 | dB |
| PMD | | | 0.5 | ps |
| Return Loss | 45 | | | dB |
| LOSA | | -37 | | dBm |
| Hysteresis | | 2 | | dB |

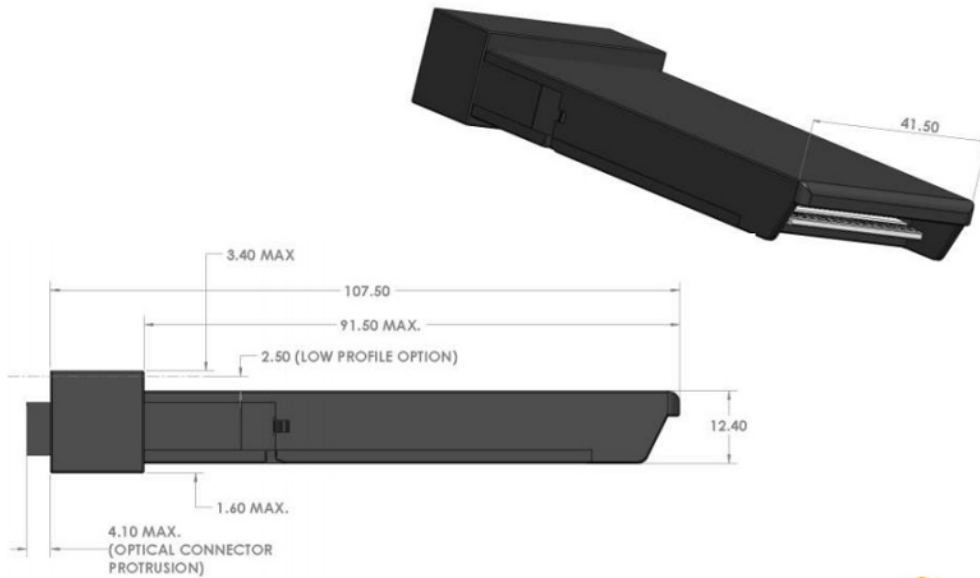
BOOSTER

| Parameter | Min. | Typ. | Max. | Unit |
|------------------------------|------|------|------|------|
| Wavelength | 1529 | | 1561 | nm |
| Input Power | -20 | | 10 | dBm |
| Output Power | 0 | | 20 | dBm |
| Output Power Variation | -0.3 | | 0.3 | dB |
| Gain | | 20 | | dB |
| Gain Flatness (peak to peak) | | | 1.3 | dB |
| Gain Accuracy | -0.5 | | 0.5 | dB |
| Noise Figure | | | 6.0 | dB |
| PDL | | | 0.3 | dB |
| PMD | | | 0.5 | ps |
| Return Loss | 45 | | | dB |
| LOSA | | -22 | | dBm |
| Hysteresis | | 2 | | dB |

DATA SHEET

CFP2 PLUGGABLE EDFA

DIMENSIONS



ORDERING INFORMATION

| Jabil Part Number | Package | Gain | Output Power | Other info |
|-------------------|---------|-------|--------------|--------------|
| JP-EDFA-CFP2-2010 | CFP2 | 20 dB | 10dBm | Preamplifier |
| JP-EDFA-CFP2-2020 | CFP2 | 20 dB | 20dBm | Booster |

CONTACT INFORMATION

For additional information and evaluation samples order, please contact:

Chuck Sinha, Sr. Director of Sales
 Jabil Photonics
 5960 Inglewood Dr. Suite 100, Pleasanton, CA

Mobile: 408-505-0955 Email: Chuck_Sinha@Jabil.com