



## CFP2 PLUGGABLE EDFA

### Description

Jabil Photonic 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.

Jabil Photonic 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.

A Booster or Preamplifier versions are available.

### 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



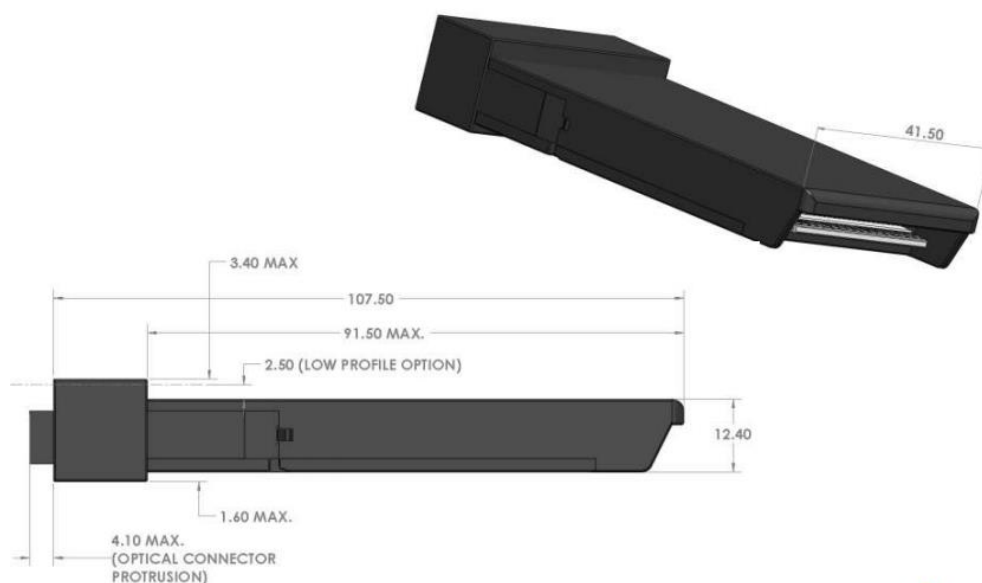
## Environmental Specifications

| 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   |



### 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

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