

## Burst Mode EDFA Series



### Product Introduction

Burst mode EDFA is special customized EDFA for NG-PON2 and other applications with burst mode transmitter. Different from traditional EDFA, it can easily suppress overshoot during the burst process using optical and electrical associated technology. It features excellent optical performance, such as NF, PDG, GF, and high reliability.

### Features

- Overshoot less than 1dB
- Noise Figure less than 5.5dB
- Gain adjustable range up to 10dB
- Integrated with DEMUX
- RS232 interface with monitoring, alarms and safety shut-down

### Applications

- NG-PON2
- Other TWDM-PON or WDM-PON

### Standards

- Telcordia GR-1312-CORE
- RoHS

### Specifications

| Operation wavelength           | nm | C1: 1532.68nm |         |         | Customer specify                    |
|--------------------------------|----|---------------|---------|---------|-------------------------------------|
|                                |    | C2: 1533.47nm |         |         |                                     |
|                                |    | C3: 1534.25nm |         |         |                                     |
|                                |    | C4: 1535.04nm |         |         |                                     |
| Central wavelength accuracy    | nm |               |         | +/-0.05 | @room temperature only<br>for ch1~4 |
| Pass band@1dB                  | nm |               | +/-0.15 |         |                                     |
| Adjacent channel isolation     | dB | 30            |         |         |                                     |
| Non_adjacent channel isolation | dB | 45            |         |         |                                     |
| Noise figure                   | dB |               |         | 5.8     | @Maximum gain                       |

|                                  |     |     |     |     |                   |
|----------------------------------|-----|-----|-----|-----|-------------------|
| Per channel input power range    | dBm | -35 |     | -12 |                   |
| Total input power range          | dBm | -35 |     | -6  |                   |
| Per channel maximum output power | dBm | -6  |     |     |                   |
| Maximum output power             | dBm | 0   |     |     | @detection point  |
| Gain uniformity                  | dB  |     | 0.8 | 2   | @Full temperature |
| Optimal gain                     | dB  |     |     | 11  |                   |
| Input/output port return loss    | dB  | 45  |     |     |                   |
| PDG                              | dB  |     |     | 0.3 |                   |
| Directivity                      | dB  | 50  |     |     |                   |

#### Ordering Information

The above specification represents the typical performance of Accelink Burst Mode EDFA. D y