

## Hybrid Raman/EDFA optical amplifier

### Product Introduction

Hybrid Raman/EDFA optical amplifier series are mainly used in ultra-long span, large capacity and high rate system to improve the OSNR of the system. Compared with the conventional EDFA systems, the OSNR can be improved 6~7dB; and they can effectively reduce the design cost of system compared with separate Raman systems.

### Features

Respective AGC control for Raman and EDFA

Rapid transient control

Apply to different types of fiber: SSMF/G.652,Leaf/G.655,Truwave/G.655

Large dynamic adjustable range of gain and gain Tilt dynamical adjustment of gain and gain Tilt

upgrade existing systems to 100Gb/s or higher rate

### Standards

Telcordia GR-1312-CORE

RoHS

### Specifications

| Parameter                      | Unit | Min. | Typ. | Max. | Remark     |
|--------------------------------|------|------|------|------|------------|
| Operation Wavelength           | nm   | 1528 |      | 1568 |            |
| Input Optical Power            | dBm  | -35  |      | 0    | @ pump off |
| Saturated Output Optical Power | dBm  |      |      | 24   |            |
| Gain                           | dB   | 13   |      | 42   |            |

|                       |                      |            |     |      |                              |
|-----------------------|----------------------|------------|-----|------|------------------------------|
| Transient             | Overshoot&undershoot | dB         | -1  | 1    | For 20dB Add/drop,           |
|                       | setting time         | us         |     | 800  | 100us signal Fall/Raise time |
|                       | gain error           | dB         |     | ±0.5 |                              |
| Gain Fluctuation      |                      | dB         |     | ±0.5 |                              |
| Size                  | mm                   | 220×130×20 |     |      | Without radiator fan         |
|                       | mm                   | 220×130×30 |     |      | With radiator fan            |
| Operation Temperature |                      |            | -10 | 55   |                              |
| Power Consumption     |                      | W          |     | 50   |                              |

### Ordering Information

HYFA - R- - E- - - - -

