# L-Band High-Power Polarization Maintaining EDFA Amplifier

## 1. Description:

The L-band high-power polarization maintaining erbium-doped fiber amplifier (EYDFA-HP) is based on the laser amplification principle of optical signal in erbium-doped fiber, using a unique multi-stage optical amplification design and reliable high-power laser heat dissipation technology, to achieve high-power laser output in the 1570~1605nm wavelength range. With high power and low noise, it can be used in fiber optic communication, Lidar, etc.


## 2. Features:

- High output power(10W);
- High gain factor;
- Full polarisation-maintaining light path.

## 3. Applications:

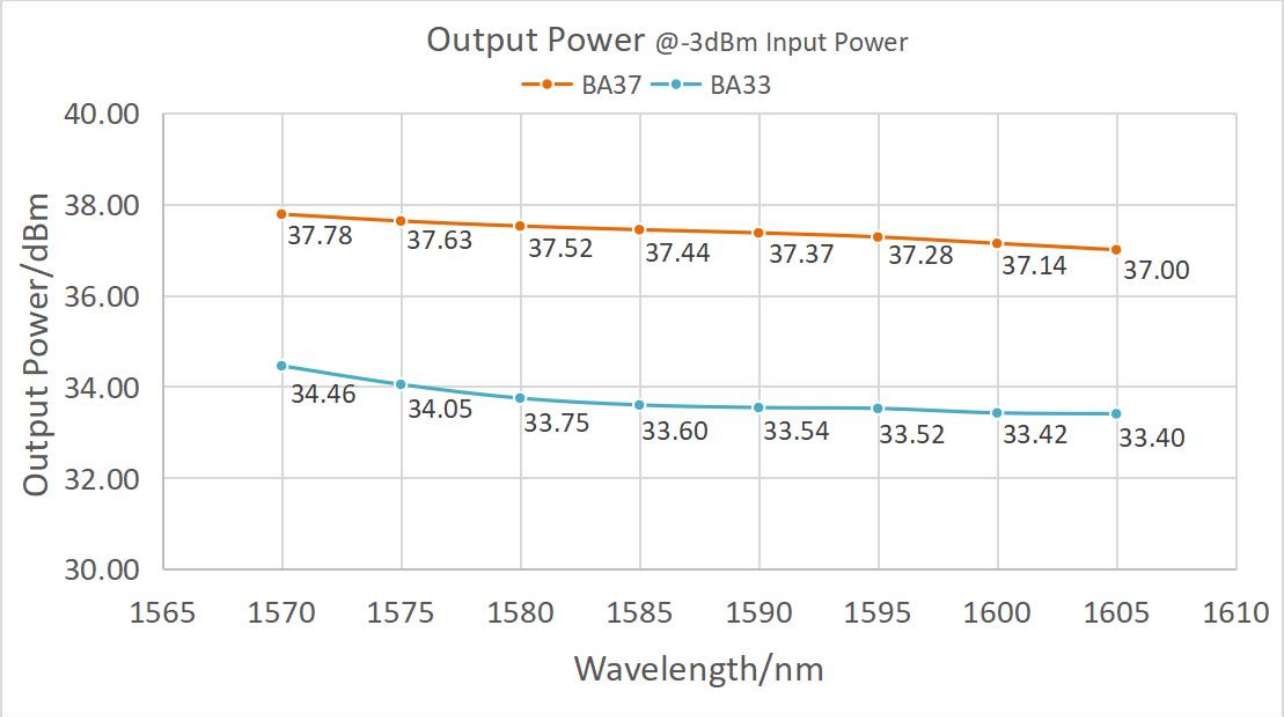
- Optical fiber communication;
- Optical fiber sensor;
- Fiber laser.

## 4. Electro-Optical Characteristics:

| Parameters | | Unit | Values | Notes |
|---|---|---|---|---|
| Operating wavelength | | nm | 1570~1605 | Customized |
| Input power | | dBm | -6~+10 | |
| Saturated output power | | dBm | 27/30/33/35/37/40 | @0dBm Input |
| Adjustable range of output power | | - | 10%~100% | |
| Noise figure | | dB | <6.0 | @0dBm Input |
| Polarization dependent gain | | dB | <0.5 | |
| Polarization mode dispersion | | ps | 0.5 | |
| Polarization extinction ratio | | dB | 23(Type), 20(Min) | |
| Input/Output isolation | | dB | >35 | |
| Fiber type | | - | PM1550 | |
| Connector | | - | FC/APC | Just for power test |
| Operating mode | | - | ACC/APC | |
| Dimensions | 27/30/33/35dBm | mm | 260(W)×320(D)×120(H) | Benchtop |
| | 37/40dBm | | 360(W)×350(D)×120(H) | Benchtop |
| | 27/30/33/35dBm | | 125(W)×150(D)×30(H) | Module |
| | 37/40dBm | | 139(W)×235(D)×70(H) | Module |
| Power supply | | V | AC 110~240V, <150W@25℃ | Benchtop |

| | | | |
|---|---|---|---|
| | | 12V DC, <60W | Module |
| Control mode | - | RS232 Serial communication | Module |
| Communication Interface | - | DB9 Female | Module |
| Operating temperature | ℃ | -5 ~ +35 | |
| Operating humidity range | % | 0~70 | |

## 5. Type Curve:




## 6. Ordering information:

| EYDFA | EDFA Type | Wavelength | Output power | Fiber type | Dimension |
|---|---|---|---|---|---|
| **EYDFA** | **-XX-XX** | **-X** | **-XX** | **XX** | **-X** |
| High power Erbium-doped Fiber Amplifier | HP-BA: High power Booster-Amp | L: L-band | 27: 27dBm<br>30: 30dBm<br>35: 35dBm<br>37: 37dBm<br>40: 40dBm | PM: PM Fiber | M: Module<br>B: Benchtop |