High Power Ytterbium Doped Fiber Amplifier, +30 to +37 dBm

This product is a single mode optical amplifier unit designed for Inline applications requiring high efficiency optical amplification in the 1060 nm regime in both CW and pulse mode operations. It is a self-contained, turn-key bench-top designed to supply high and stable gain across the specified range of the wavelength window with optical output power up to +37 dBm.

FEATURES
- High SNR near saturation power
- Saturation power of +30 to +37 dBm
- Pulse and CW operation modes
- Interlock safety feature

APPLICATIONS
- SHG
- Medical
- Industrial
- Fiber Optic Sensing
- Lower Power Pulse Amplification
- MOPA

CUSTOMIZATION
- PM or SM outputs available
- Various saturation levels (30dBm, 33 dBm, etc.)
- See next page for ordering instructions
### YDFA-3X-B

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength Range</td>
<td>1050 nm to 1074 nm</td>
</tr>
<tr>
<td>Input Power Level</td>
<td>-10 dBm to +10 dBm</td>
</tr>
<tr>
<td>Input Isolation</td>
<td>&gt;30 dB</td>
</tr>
<tr>
<td>Output Isolation</td>
<td>&gt;30 dB</td>
</tr>
<tr>
<td>Gain</td>
<td>&gt;30 dB @ 0 dBm</td>
</tr>
<tr>
<td>Optical Input fiber type</td>
<td>HI1060, FC/APC Connector</td>
</tr>
<tr>
<td>Optical Output fiber type</td>
<td>Passive, 12/1250C, no connector*</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>+10°C to +30°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-10°C to +70°C</td>
</tr>
<tr>
<td>Power Supply</td>
<td>100 to 240 VAC</td>
</tr>
<tr>
<td>Control</td>
<td>Pump laser current, enable switch</td>
</tr>
<tr>
<td>Monitoring</td>
<td>Pump laser current, input power</td>
</tr>
<tr>
<td>Dimensions</td>
<td>250(W)x300(L)x100(H) (mm)</td>
</tr>
</tbody>
</table>

**ORDER OPTIONS**

YDFA-3X-B-zz

- **x**: specifies output power (dBm)
  - e.g., 30, 33, 37...
- **zz**: specifies PM or SM
  - PM for PM, none for SM

*Collimator Option available*

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FUNCTION DIAGRAM

Signal Input
- 1/99
- ISO
- Input Monitor PD
- Pump #1
- Pump #2
- Booster Pumps

AMP 1
AMP 2
BOOSTER

ISO

Signal Output

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