PriTel's PMFA-L Series of Polarization Maintaining Optical Fiber Amplifiers are based on well-established diode pumped pure Er and Erbium-Ytterbium co-doped optical fiber technology.

Input/output monitor option has optical taps in addition to digital display of input and output power levels. Output optical tap monitor eliminates accidental burning of connectors while trying to analyze optical spectrum.

Certified short pulse performance is available as an option for pulsewidths as short as 1 ps in L-Band.

### Specifications

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturated output power</td>
<td>15 dBm</td>
<td>20 dBm</td>
<td>24 dBm</td>
<td>27 dBm</td>
</tr>
<tr>
<td>Signal gain</td>
<td>&gt;23 dB @ -20 dBm</td>
<td>&gt;25 dB @ -20 dBm</td>
<td>27 dB @ 0 dBm</td>
<td>30 dB @ 0 dBm</td>
</tr>
<tr>
<td>Optical noise figure @ 1590 nm</td>
<td>&lt; 4 dB @ -20 dBm</td>
<td>&lt; 5 dB @ -20 dBm</td>
<td>&lt; 6 dB @ 0 dBm</td>
<td>&lt; 7 dB @ 0 dBm</td>
</tr>
<tr>
<td>Input power range</td>
<td>-30 to +10 dBm</td>
<td>-20 to +10 dBm</td>
<td>-10 to +20 dBm</td>
<td>0 to +20 dBm</td>
</tr>
<tr>
<td>Wavelength range</td>
<td>1570-1615 nm</td>
<td>1565-1615 nm</td>
<td>1570-1615 nm</td>
<td>1570-1615 nm</td>
</tr>
<tr>
<td>Dimensions</td>
<td>10 cm x 26 cm x 28 cm</td>
<td>10 cm x 26 cm x 28 cm</td>
<td>10 cm x 26 cm x 36 cm</td>
<td>10 cm x 26 cm x 36 cm</td>
</tr>
</tbody>
</table>

**Optical**
- Gain medium: Er doped core pumped silica fibers for models PMFA-15 to PMFA-20, Er/Yb, double-clad silica fiber for models PMFA-23-L to PMFA-27-L
- Pump source: Diode laser (910-980 nm)
- Connectors: FC/APC (other connectors available upon request)

**Environmental**
- Operating temperature: +15 to 35°C
- Storage temperature: -20 to 50°C

**Electrical/ Mechanical**
- Operating Voltage: 85-264 VAC at 47-63 Hz
- Power consumption: < 50 W
Typical Performance of Polarization Maintaining Optical Fiber Amplifiers

**Er doped, Core Pumped Fibers**

![Graph showing Er doped, Core Pumped Fibers performance](image)

**Er/Yb, Cladding Pumped Fibers**

![Graph showing Er/Yb, Cladding Pumped Fibers performance](image)

Information contained herein is deemed to be reliable and accurate. PriTel, Inc. assumes no responsibility and shall have no liability relating to its use. PriTel, Inc. reserves the right to change product specifications at any time without notice.

PriTel, Inc.
P.O. Box 4025, Naperville, IL 60567-4025, USA
Ph: 630-983-2200,Fx: 630-983-2280 (USA)
E-mail: PriTel@PriTel.com, Internet: www.PriTel.com

PMFA-LBand_R10.pub