PriTel’s FP Series of FEMTOPULSE™ Optical Pulse Compressors are designed for use with the UOC Ultrafast Optical Clock in R&D applications in optical switching, measurement of optical fiber dispersion and nonlinearities, and terahertz fiberoptics.

FEMTOPULSE™ Optical Pulse Compressors utilize specialty fibers to temporally compress transform-limited input pulses. Units are custom-designed to meet performance requests.

An integrated EDFA is used to boost the pulse peak power before input to the specialty fiber. The front panel connections allow the EDFA to be used as a stand-alone amplifier for other applications.

### Specifications

<table>
<thead>
<tr>
<th><strong>FP-300</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Input wavelength</td>
<td>1540-1560 nm</td>
</tr>
<tr>
<td>Pulselength</td>
<td>&lt; 300 fs (3 ps input) at a specific wavelength</td>
</tr>
<tr>
<td>Spectral width</td>
<td>&gt; 6 nm at a specific wavelength</td>
</tr>
<tr>
<td>Average output power</td>
<td>Varies with input pulse repetition frequency (e.g., &gt; 50 mW at 10 GHz)</td>
</tr>
<tr>
<td>Peak power</td>
<td>&gt; 10 W at 10 GHz</td>
</tr>
<tr>
<td>Max. energy in pedestals</td>
<td>&lt; 5%</td>
</tr>
</tbody>
</table>

**Optical**
- Gain medium: Er or Er/Yb doped silica fiber
- Pump source: 980 nm diode laser
- Connectors: FC/APC (other connectors available on request)

**Environmental**
- Operating temperature: +15 to 30°C
- Storage temperature: -20 to 50°C

**Electrical/Mechanical**
- Operating Voltage: 85-264 VAC at 47-63 Hz
- Power consumption: < 125 W
- Dimensions (3U): 10 cm x 26 cm x 36 cm
- Weight: 9 kg

**PriTel, Inc.**
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E-mail: PriTel@PriTel.com, Internet: www.PriTel.com
Typical Performance of PriTel’s FEMTOPULSE™ Optical Pulse Compressors at 10 GHz

**Model FP-300**

Typical Application

- **Spectral Slicing**

Multiple channels from a single source

Variable pulsewidth (1-5 ps)

All proven technology

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.

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