**Technical Specifications**

### Optical

<table>
<thead>
<tr>
<th>Feature</th>
<th>PDM+</th>
<th>PDM+ HP</th>
<th>PDM₄⁺</th>
<th>PDM₄⁺ HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak power</td>
<td>Up to 2W</td>
<td>Up to 3.2W</td>
<td>Up to 6W</td>
<td>Up to 10W</td>
</tr>
<tr>
<td>Pulse width</td>
<td>From 2ns to CW</td>
<td>From 4ns to CW</td>
<td>From 2ns to CW</td>
<td>From 4ns to CW</td>
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<tr>
<td>Repetition rate</td>
<td>From single-shot to 250 MHz</td>
<td>From single-shot to 250 MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Available wavelengths (nm)</td>
<td>808, 976, 1030, 1064, 1075⁽¹⁾</td>
<td>976, 1064, 808⁽²⁾</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating mode</td>
<td>Pulsed and CW</td>
<td>Pulsed and CW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beam quality</td>
<td>Single-mode</td>
<td>Single-mode</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Command interface</td>
<td>TTL/LVTTL⁽³⁾</td>
<td>TTL/LVTTL⁽³⁾</td>
<td></td>
<td></td>
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<tr>
<td>Output fiber</td>
<td>SM/PM</td>
<td>SM/PM</td>
<td></td>
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</tr>
</tbody>
</table>

⁽¹⁾ Other available wavelengths: 845, 1310, 1480, 1550 nm...
⁽²⁾ Choose two wavelengths from 976, 1064, 808 nm...
⁽³⁾ LVDS or other on demand (LVPECL, CML, LV...

### Electrical

- Operating voltage: 12-15 Vdc (OEM) 110/220V ac/dc converter included
- Input impedance: 50 Ω

### Mechanical

- Various dimensions and configurations shown in diagrams

### Options

- Polarized fiber (single-mode only)
- Output isolator
- Narrow emission bandwidth
- Separated collimator
- Interlock
- Various fiber connectors (FC, SMA...)

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**Pulse-on-Demand Modules**

**PDM Series**

*Photos: ALPhA NOV - version 11/2016*
Pulse-on-Demand Modules for Full Temporal Agility

Generate optical pulses on demand from input TTL/LVTTL digital signal with extremely low jitter.

**PDM+**

- Very short pulses, down to 1nsec in standard version
- Burst mode

- Up to 3.2W peak power with single-mode output signal

**PDM 4+**

- Up to 10W peak power with single-mode output signal

The PDM series consists of OEM laser modules which generate optical pulses from input TTL/LVTTL digital signal. From single-shot to continuous wave (CW), with pulse length from 2ns to any required pulse-burst configuration, the PDM series offers the best temporal flexibility on the laser market.

**Key features:**
- Single-shot, burst mode or CW operation
- Up to 10W peak power
- Min. pulse duration: 2 nsec (FWHM)
- Extremely low jitter (<8ps)
- Large range of wavelengths from UV to IR
- Up to 250 MHz repetition rate
- Excellent beam quality
- Generate short pulses from a longer TTL signal
- Smart control (USB interface)

**Key applications:**
- MOPA architecture
- Low power micromachining
- Laser development
- Non destructive control
- Telemetry
- Doppler measurements
- Metrology
- Semiconductor testing

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