Polarization Maintaining Dual Fiber Collimator
(PMC Series)

The PM Fiber Collimator is the basic element for in-line PM fiber optics components, such as PM isolator and PM FWDM. It has high extinction ratio, low insertion loss and high return loss. The unique processing and high quality AR coating also enable this collimator to handle high power.

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength ($\lambda_c$)</td>
<td>nm</td>
<td>1310, 1550 or specify</td>
</tr>
<tr>
<td>Operating Wavelength Range</td>
<td>nm</td>
<td>(\lambda_c \pm 30)</td>
</tr>
<tr>
<td>Working Distance</td>
<td>mm</td>
<td>5 ~ 10 11 ~ 30 31 ~ 50</td>
</tr>
<tr>
<td>Typ. Insertion Loss @ 23°C</td>
<td>dB</td>
<td>0.20 0.25 0.30 0.40</td>
</tr>
<tr>
<td>Max. Insertion Loss @ 23°C</td>
<td>dB</td>
<td>0.25 0.35 0.40 0.25</td>
</tr>
<tr>
<td>Min. Extinction Ratio @ 23°C</td>
<td>dB</td>
<td>20</td>
</tr>
<tr>
<td>Min. Return Loss @ 23°C</td>
<td>dB</td>
<td>55</td>
</tr>
<tr>
<td>Max. Optical Power</td>
<td>W</td>
<td>0.3, 0.5, ..., 3</td>
</tr>
<tr>
<td>Max. Tensile Load</td>
<td>N</td>
<td>5</td>
</tr>
<tr>
<td>Fiber Type</td>
<td></td>
<td>PM Panda fiber or specify</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>°C</td>
<td>-5 to +70</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>°C</td>
<td>-40 to +85</td>
</tr>
</tbody>
</table>

*IL is 0.3 dB higher, RL is 5 dB lower, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

*Optical Power will be 1 W only for connector added.

Working Type

Transmission Type

Reflection Type

Slow Axis Orientation

Slow Axis

E

F

T
### Ordering Information

**PMC-①-②-③③-④-⑤-⑥-⑦-⑧-⑨-⑩-⑪-⑫**

①: Lens Diameter
   - 1 - 1.8 mm

②: Pigtail Type
   - 2 - Dual fiber pigtail

③③: Wavelength
   - 31 - 1310 nm
   - 55 - 1550 nm

④: Holder Type
   - 1 - Metal holder
   - 2 - Glass tube

⑤: Working Distance
   - 0 - 0 mm
   - 5 - 5 mm
   - SS - Specify
   - N - None

⑥: Connector Type
   - 1 - FC/UPC
   - 2 - FC/APC
   - 3 - SC/UPC
   - 4 - SC/APC
   - N - None

⑦: Fiber Type
   - B - 250 μm bare fiber
   - E - As drawing
   - F - As drawing
   - T - As drawing
   - SS - Specify

⑧: Slow Axis Orientation
   - 0 - 0 mm
   - 5 - 5 mm
   - N - None

⑨: Fiber Length
   - Q - 0.75 m
   - S - Specify

⑩: Lens Type
   - G - Grin lens
   - C - C lens

⑪: Working Type
   - T - Transmission type
   - R - Reflection Type

⑫: Optical Power
   - 03 - 0.3 W
   - 05 - 0.5 W
   - 3 - 3 W
   - S - Specify

---

**Package Dimensions**

![Package Dimensions Diagram]