Fiber Mirror Reflector

Product Description

Agiltron Fiber Mirror Reflector is designed to reflect light input backward through the fiber. They can be used to create a fiber interferometer or to build a low-power fiber laser. These retroreflectors are ideal for determining back reflection specifications for transmitters, amplifiers, and other devices.

Features

• Low Insertion Loss
• Compact Size
• High Reliability
• Low Cost
• Environmental Stability

Performance Specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Wavelength ($\lambda_c$)</td>
<td>1064/1310/1550</td>
<td>nm</td>
</tr>
<tr>
<td>Typical Spectral Width ($\Delta \lambda$)</td>
<td>$\pm 50$</td>
<td>nm</td>
</tr>
<tr>
<td>Typical Insertion Loss ($\lambda_c, 23^\circ C$, no connector)</td>
<td>$\leq 0.35$</td>
<td>dB</td>
</tr>
<tr>
<td>Reflection Percentage</td>
<td>99 or other</td>
<td>%</td>
</tr>
<tr>
<td>PDL ($\lambda_c, 23^\circ C$)</td>
<td>$\leq 0.10$</td>
<td>dB</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-5 - +70</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 - +85</td>
<td>°C</td>
</tr>
<tr>
<td>Optical Power Handling</td>
<td>$\leq 300$</td>
<td>mW</td>
</tr>
<tr>
<td>Package Dimensions</td>
<td>$\varnothing3.5 \times L15$</td>
<td>mm</td>
</tr>
<tr>
<td></td>
<td>$\varnothing5.5 \times L35$</td>
<td>mm</td>
</tr>
</tbody>
</table>

* Special order for 50nm spectral width
** $\lambda_o=(\lambda_c-\Delta \lambda/2) \sim (\lambda_c+\Delta \lambda/2)$
## Fiber Mirror Reflector

![Diagram of Fiber Mirror Reflector]

**Ordering Information**

<table>
<thead>
<tr>
<th>FOMR-</th>
<th>O</th>
<th>Wavelength</th>
<th>Reflection</th>
<th>Package</th>
<th>Fiber Type</th>
<th>Fiber Length</th>
<th>Connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>16=1064</td>
<td></td>
<td>99=99%</td>
<td>1-way</td>
<td>1=SMF-28</td>
<td>1=0.25m</td>
<td>1=SC/PC</td>
<td></td>
</tr>
<tr>
<td>13=1310</td>
<td></td>
<td>98=98%</td>
<td>2-way</td>
<td>2=Hi1060</td>
<td>2=0.5m</td>
<td>2=ST/PC</td>
<td></td>
</tr>
<tr>
<td>15=1550</td>
<td></td>
<td>97=97%</td>
<td>3-way</td>
<td>3=Optic Fiber</td>
<td>3=1.0m</td>
<td>3=LC</td>
<td></td>
</tr>
<tr>
<td>00=Special</td>
<td></td>
<td>95=95%</td>
<td>0=Special</td>
<td>0=Special</td>
<td>0=Special</td>
<td>0=Special</td>
<td></td>
</tr>
</tbody>
</table>

*Revision: 05-18-2018*