HIGH POWER OPTICAL CONNECTOR

LOF (LENS ON FIBER) & SHUTTER SC CONNECTOR

FEATURES

- Expanded beam connector for high power application
- Micro lens directly on fiber
- No epoxy in light path
- Shuttered SC Connector for laser safety and dust prevention
- Compatible to NTT SC hardware
- UPC and APC type available

CHARACTERISTICS

<table>
<thead>
<tr>
<th>Insertion Loss (MAX)</th>
<th>0.5dB</th>
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</thead>
<tbody>
<tr>
<td>Return Loss (MIN)</td>
<td>50dB</td>
</tr>
<tr>
<td>Wide Wavelength Range</td>
<td>370nm-1,700nm</td>
</tr>
<tr>
<td>Power</td>
<td>3W</td>
</tr>
<tr>
<td>Beam Diameter</td>
<td>50μm</td>
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</tbody>
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Following is available upon request:
- 250μm and 900μm
- AR coating on fiber
- A wide range of Numerical Aperture: 0.11-0.44
- Customized beam-waist diameter and waist distance from lens surface
SENKO’s LOF (Lens on Fiber) is a new concept Fiber assembly which a Micro collimator Lens is directly attached to a conventional Single mode fiber. Senko has seen that the industry is continuing to increase the “optical power” required in some applications. By introducing a collimated lens at the connector tip, this will enlarge the beam diameter and reduces power intensity at the connector interface. The LOF allows the Optical MFD (Mode Field Diameter) to Expand or to Condense depending on the need. The small size and simple structure allows wide application as well as a high durability. This will help resolve potential heat issues caused by contamination and unclean connectors.

**Application**

**Optical Switch**

**Non Contact High Power Connector**

**Coupling with Laser Diode**

**Coupling with Optical Waveguide**