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 hard ware
• UPC and APC type available

CHARACTERISTICS

- Insertion Loss (MAX): 0.5dB
- Return Loss (MIN): 50dB
- Wide Wavelength Range: 370nm-1,700nm
- Power: 3W
- Beam Diameter: 50μm

Following is available upon request:
- AR coating on fiber
- A wide range of Numerical Aperture: 0.11-0.44
- Customized beam-waist diameter and waist distance from lens surface

www.senko.com
SENKO’s LOF (Lens on Fiber) is a new concept Fiber assembly which a Micro colimator 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.

**LOF Design 1**  
With Colimator Lens

**LOF Design 2**  
With Condenser Lenses

**LOF Design 3**  
With 90° reflection turn

**Application**

- **Optical Switch**
- **Non Contact High Power Connector**
- **Coupling with Laser Diode**
- **Coupling with Optical Waveguide**

**SENKO ADVANCED COMPONENTS, INC.**

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