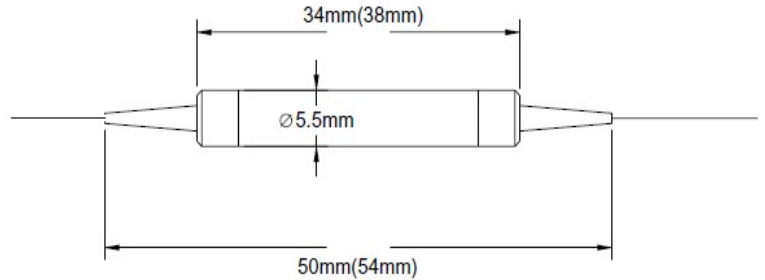




## Band Pass Filter/Isolator Hybrid Combination

DK Photonics' BandPass Filter/Isolator Hybrid Combination is a combination of a BandPass Filter and an isolator in a compact package. This product has an extremely low insertion loss, a very stable tap-coupling ratio, high isolation, and high return loss. This product offers integrated solution to EDFA application by combining more functions into a very compact package.

The products are Telcordia GR-1221/1209-CORE qualified, and RoHS compliant.



### Features

- ◆ Compact Size
- ◆ Low insertion loss
- ◆ High channel Isolation
- ◆ Ultra Low PDL & PMD
- ◆ High stability and reliability
- ◆ Epoxy free on optical path

### Applications

- ◆ EDFA
- ◆ DWDM Network
- ◆ Wavelength Routing
- ◆ Fiber Optical Instrument
- ◆ CATV Fiberoptic System
- ◆

### Performance Specifications

| Parameter                                      | Single Stage                | Dual Stage        |
|--|-----------------------------|-------------------|
| Pass Channel Wavelength Range (nm)             | 1530~1565                   |                   |
| Rejection Channel Wavelength Range (nm)        | 1450~1490                   |                   |
| Isolation (dB) ( 1550±15nm, @RT, and all SOP)  | > 31                        | > 45              |
| Insertion Loss (dB)                            | < 0.8 (Typ. 0.6)            | < 1.0 (Typ.0.8)   |
| Rejection Channel Isolation (dB)               | > 30                        |                   |
| Wavelength Dependent Loss (dB)                 | < 0.3                       | < 0.4             |
| Polarization Dependent Loss (dB)               | < 0.1 (Typ. 0.05)           | < 0.1 (Typ. 0.05) |
| PMD (ps) (Low PMD Option)                      | < 0.25 (0.05)               | < 0.05            |
| Insertion Loss Temperature Sensitivity (dB/°C) | < 0.003                     |                   |
| Return Loss (Min.) (dB)                        | > 55                        |                   |
| Power Handling (mW)                            | 300                         |                   |
| Operating Temperature (°C)                     | 0 ~ +70                     |                   |
| Storage Temperature (°C)                       | -40 ~ +85                   |                   |
| Package Dimensions (mm)                        | Ø 5.5 x L38                 |                   |
| Fiber Type                                     | SMF-28 fiber at signal port |                   |

\*The above specification is without connector.

\*\*Other specifications can be made on customer request.

### Order information

GFFI-①-②-③③-④④-⑤⑤



| EFIH | ①                               | ②②                                 | ③③   | ④④  |
|------|---------------------------------|------------------------------------|--|---|
|      | Stage                           | Fiber Diameter                     | Fiber Length                               | Connector   |
|      | S:Single Stage<br>U: Dual Stage | 25:250um<br>90:900um<br>XX: Others | 05:0.5m<br>10:1.0m<br>15:1.5m<br>XX:Others | 00:None<br>FP: FC/PC<br>FA: FC/APC<br>SP: SC/PC<br>SA: SC/APC<br>LP: LC/PC<br>LA: LC/APC<br>ST: ST/PC<br>XX: Others |