DK PHOTONICS
Optical Passive Components

# 1064nm Band Pass Filter

## Key Features

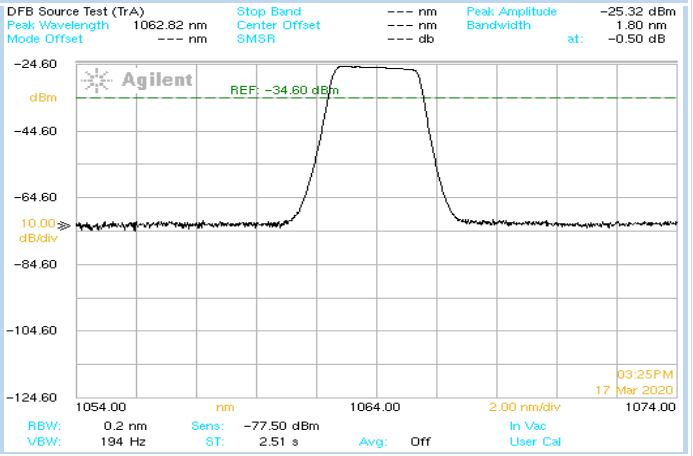
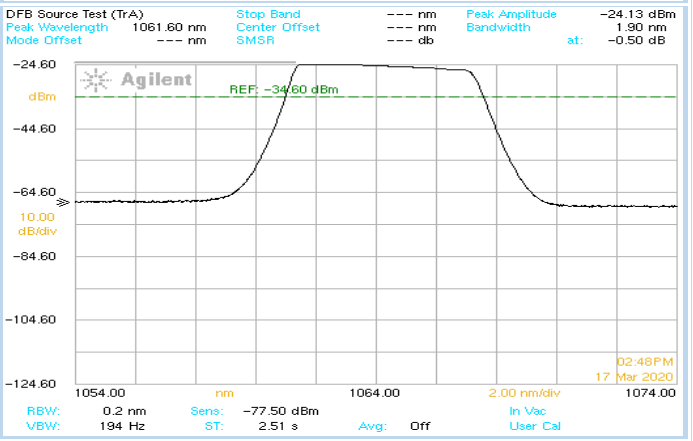
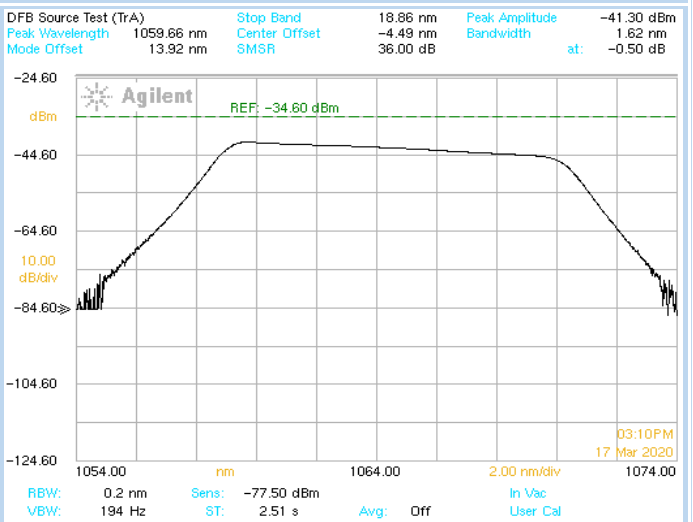
- Low Insertion Loss
- High isolation
- High power handling

The 1064nm Band-pass Filter is a micro optics device based on environmentally stable thin-film filter technology. It is used to block out unwanted noise signals in fiber amplifier or fiber laser systems. The components are characterized with high isolation, low insertion loss, high return loss, excellent environmental stability and high power handling capability. They are ideal for fiber amplifiers, fiber lasers, and high speed communication system and instrumentation applications.

## Applications

- Fiber laser
- Fiber amplifier

## Part of the reference spectrum

| Center Wavelength | Pass Band | Pass band @0.5dB |
|---|---|---|
| 1064nm | 2nm |  |
| 1064nm | 5nm |  |
| 1064nm | 8nm |  |







# For more Info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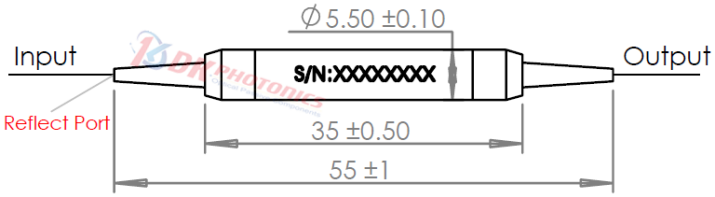
# 1064nm Band Pass Filter

## Performance Specifications

| Parameter | Unit | Specification | | |
|---|---|---|---|---|
| Center Wavelength | nm | | 1064 | |
| Max. Pass bandwidth@0.5dB | nm | 2 | 5 | 8 |
| Max. Stop bandwidth@30dB down | nm | 6 | 12 | 20 |
| Max. Insertion Loss of Pass Band | dB | 0.8 | 0.8 | 0.8 |
| Max. PDL | dB | | 0.10 | |
| Min. Return Loss | dB | | 50 | |
| Fiber Type | - | | 1060-XP fiber, or other | |
| Max. Power Handling | W | | 0.3, 1, 2, 3, 5, 10 | |
| Max. Tensile Load | N | | 5 | |
| Operating Temperature | ℃ | | -5 - 75 | |
| Storage Temperature | ℃ | | -40 - 85 | |
| Dimensions | mm | | Φ5.5×L35 | |

*Above specifications are for device without connector.
*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, Power transmits through the connector less than 2W.
*For >10W high power applications, we will use heat sink package, contact DK Photonics for details.
*Since the function of the BPF is to block unwanted noise signals, the blocked light remains in the interior of the housing, so we do not recommend applying it to too high power or adding reflection port to reflect the blocked light.
*Other center wavelengths and bandwidths can also be customized, but MOQ is required, please contact us.

## Package Dimension:




## Order information

P/N: BPF-①-②-③-④-⑤-⑥-⑦

When you inquire, please provide the correct P/N number according to our ordering information, and attach the appropriate description would be better. If need any connector, we do not recommend choosing a 250μm bare fiber pigtail.

| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ |
|---|---|---|---|---|---|---|
| Port | Wavelength | Pass bandwidth | Power Handling | Pigtails Diameter | Fiber Length | Connector |
| 101:1x1(default)<br>102: 1x2(With reflect unwanted signals port) | 30:1030nm | 2:2nm<br>6:6nm | L:<0.3W<br>1:1W<br>2:2W | 25:250μm bare fiber<br>90:900μm Loose Fiber<br>XX: Others | 05:0.5m<br>08:0.8m<br>10:1.0m<br>XX: Others | 00: None<br>FP: FC/PC<br>FA: FC/APC<br>LA: LC/APC<br>XX: Others |

**Part Number Example:** BPF-101-30-2-L-25-10-00

**Description:** 1030nm Band Pass Filter, 1x1 port, 2nm pass bandwidth, 300mW power, 1.0m 1060-XP fiber, with bare fiber, no connectors at all ports.

## Ordering Information for Custom Parts

If you need to customize other specifications, please provide detailed description for your requirement.