

1053nm PM Band Pass Filter

Key Features

- Low Insertion Loss
- High isolation
- High power handling

The 1053nm PM 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



For more Info

Please contact us at:

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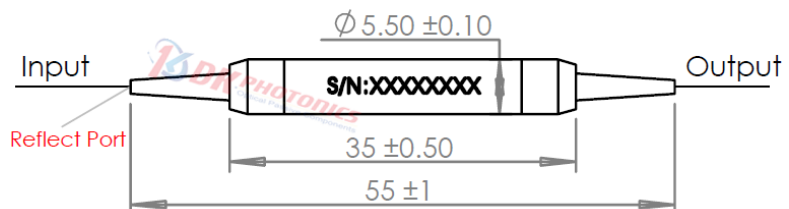
Add.:

4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Dimension:



*Due to ongoing design improvements, the package size is subject to change. Please contact DK Photonics for confirmation if you have special requirements.

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Performance Specifications

| Parameter | Unit | Specification |
|----------------------------------|------|-----------------------|
| Center Wavelength | nm | 1053 |
| Max. Pass bandwidth@0.5dB | nm | 2 |
| Max. Stop bandwidth@25dB down | nm | 6 |
| Max. Insertion Loss of Pass Band | dB | 0.8 |
| Min. Extinction Ratio | dB | 20 |
| Type B | | |
| Type F | dB | 22 |
| Min. Return Loss | dB | 50 |
| Fiber Type | - | PM980 fiber, or other |
| Max. Power Handling | W | 0.3, 1, 2, 3, 5, 10 |
| Max. Tensile Load | N | 5 |
| Operating Temperature | °C | -5 - 75 |
| Storage Temperature | °C | -40 - 85 |
| Dimensions | mm | Φ5.5×L35 |

*Above specifications are for device without connector.

* "B" for Both axis working, "F" for Fast axis blocking, Integrated polarizer.

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower, ER (PM fiber) will be 2dB lower. Power transmit through the connector less than 2W, connector key is default aligned to the slow axis

*For >10W high power applications, we will use heat sink package, contact DK Photonics for details.

*Since the function of the BPF is to be blocked 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.

Order information P/N: PMBPF-①-②-③-④-⑤-⑥-⑦-⑧

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 250um bare fiber pigtail.

| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|--|------------|-----------------|-----------------------|-----------------|----------------------|--------------|------------|
| Port | Wavelength | Pass band-width | Axis Align-ment | Power Han-dling | Pigtails Diame-ter | Fiber Length | Connector |
| 101:1x1(default) | 53:1053nm | 2:2nm | B: Both axis working | L:<0.3W | 25:250μm bare fiber | 05:0.5m | 00: None |
| 102: 1x2(With reflect unwanted signals port) | | | F: Fast axis blocking | 1:1W | 90:900μm Loose Fiber | 08:0.8m | FP: FC/PC |
| | | | | 2:2W | XX: Others | 10:1.0m | FA: FC/APC |
| | | | | | | XX: Others | LA: LC/APC |
| | | | | | | | XX: Others |

Part Number Example: PMBPF-101-53-2-B-L-25-10-00

Description: 1053nm PM Band Pass Filter, 1x1, 2nm pass bandwidth, 300mW power, both axis working ,1.0m PM980 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.