

1480/1550nm Filter WDM

Key Features

- Low Insertion Loss
- Wide Operating Wavelength Range
- Ultra Flat Wide Passband
- High Channel Isolation
- High Stability and Reliability

The 1480/1550nm Filter Wavelength Division Multiplexer is based on environmentally stable thin-film filter technology. The devices combine or separate light at different wavelength in a wide wavelength range. They offer very low insertion loss, low polarization dependence, high isolation and excellent environmental stability. High power handling capability can be achieved through unique pigtail processing and high-quality AR coating. These components have been extensively used in fiber laser, Raman amplifiers, WDM networks and fiber optical instruments.

Applications

- System Monitoring
- WDM System
- Transmitters and Fiber Lasers
- Fiber Optical Amplifier
- Fiber Optic Instruments



For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: sales@dkphotonics.com

<https://www.dkphotonics.com>

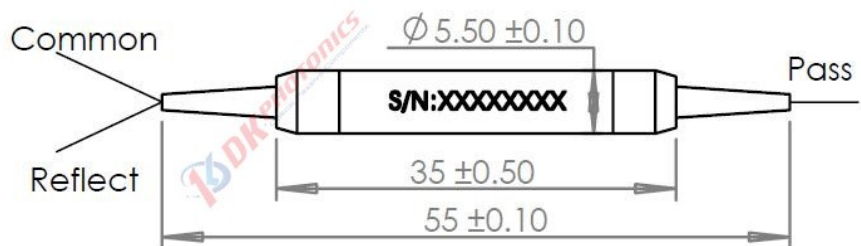
Add.:

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.

1480/1550nm Filter WDM

Performance Specifications

Parameter	Unit	Values	
Transmission Wavelength Range	nm	1535~1580(or 1470~1490)	
Reflect Wavelength Range	nm	1470~1490(or 1535~1580)	
Max. Insertion Loss	Transmission	dB	0.6
	Reflect	dB	0.4
Min. Isolation	Transmission	dB	30
	Reflect	dB	12
Max. PDL	dB	0.10	
Min. Channel Flatness	dB	0.3	
Min. Return Loss	dB	50	
Max. Power Handling (CW)	W	0.3, 0.7, 1, 2, 3	
Max. Tensile Load	N	5	
Fiber Type	-	SMF-28e	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Package Dimensions	mm	Ø5.5 x L35	

1. Above specification are for device without connector, and may change without notice.

2. IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

3. The pass optical power is 2 W only for connector added.

4. For high power applications, we will use heat sink package, contact DK Photonics for details.

Order information P/N: FWDM-①-②-③-④-⑤

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
Wavelength	Power Handling	Pigtails Diameter	Fiber Length	Connector
54:1550nm pass/1480nm reflect	S:<0.3W	25:250µm bare fiber	05:0.5m	00: None
45: 1480nm pass/1550nm reflect	L:<0.7W	90:900µm loose tube	08:0.8m	FP: FC/PC
	1:1W	XX: Others	10:1.0m	FA: FC/APC
	2:2W		XX: Others	SA: SC/APC
				LA: LC/APC
				XX: Others

Part Number Example: FWDM-45-S-90-10-FA

Description: 1480/1550nm Filter WDM - 0.3W,1480nm pass/1550nm reflect with 0.9mm OD loose tube, 1.0m fiber length, and FC/APC connectors at all ports.

Ordering Information for Custom Parts

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