





Key Features

- Low Insertion Loss
- Broad operating band
- Compact In-Line Package
- High Stability and Reliability

Applications

- Fiber Optic Instruments
- Fiber Sensors
- Coherent Detecting
- Research

780~850nm SM Filter Coupler (1x2/2x2)

The Filter Coupler using advanced micro-optic filter technology, offers very low excess loss, broad operating band and high stability and reliability. These components are extensively used with large-core double-clad fiber, multi-mode fiber, as these fibers cannot use the FBT process to make fused couplers.

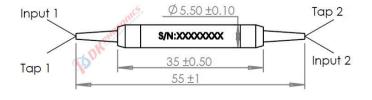




Package Dimension:

Input ϕ 5.50 \pm 0.10 Output S/N:xxxxxxx ϕ 5.50 \pm 0.50 ϕ 5.50 ϕ 5.51

2X2



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

Email: sales@dkphotonics.com

For more Info

Please contact us at:

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780~850nm SM Filter Coupler (1x2/2x2)

Performance Specifications

Parameter	Unit	Values		
Configuration	-	1x2	2x2	
Center Wavelength	nm	780, 850		
Operating Wavelength Range	nm	±50, ±100,		
Tap Coupling Ratio	%	1±0.5%, 5±2.0%, 10±2.0%, and 50%		
Max. Insertion Loss	dB	IL related to CR		
Max. Excess Lose	dB	0.7	1.0	
Uniformity (Only for 50/50)	dB	0.5	0.7	
Min. Return Loss	dB	50		
Max. Power Handling	W	0.5, 1, 2, 5, 10, 20		
Max. Tensile Load	N	5		
Fiber Type	-	780-HP fiber		
Operating Temperature	${\mathbb C}$	-5 to +70		
Storage Temperature	${\mathbb C}$	-40 to +85		
Package Dimensions	mm	Ø5.5 x L35		

- 1. above specifications are for device without connector. All parameters are tested at room temperature.
- 2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Power transmits through the connector less than 2W.
- 3. For >10W high power applications, we will use heat sink package, contact us for details.
- 4. If there is pulse application, please be sure to inform us of pulse energy and peak power.

Order information P/N: SMFC-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	6	6	Ø
Port	Operating Wavelength	Power Handling	Coupling Ratio	Pigtails Diameter	Fiber Length	Connector
102:1x2 202:2x2	78:780nm 85:850nm	L:<0.5W 1:1W 2:2W 10:10W	50:50/50 40:40/60 30:30/70 20:20/80 10:10/90 01:1/99 XX: Others	25:250μm bare fiber 90:900μm Loose Tube XX: Others	08:0.8m 10:1.0m XX: Others	00: None FP: FC/PC FA: FC/APC XX: Others

Part Number Example: SMFC-102-78-L-50-90-10-FA

Description: 780nm SM Filter 1x2 Coupler- 0.5W, 50:50 coupling ratio, 1.0m 780-HP fiber with 0.9mm OD loose tube, 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.