

100GHz 1x2 DWDM Device (3 ports)

100GHz 1x2 DWDM Device(3 ports) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging to achieve optical add and drop at the ITU wavelengths. It provides ITU channel center wavelength, low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path. It can be used for wavelength add/drop in telecommunication network system.

Key Features

- 100GHz ITU channel spacing
- Low insertion loss
- Wide pass band
- High channel isolation
- High stability and reliability

Applications

- Channel add / drop
- DWDM network
- Wavelength routing
- Fiber optical amplifier
- CATV fiber optic system



For more Info

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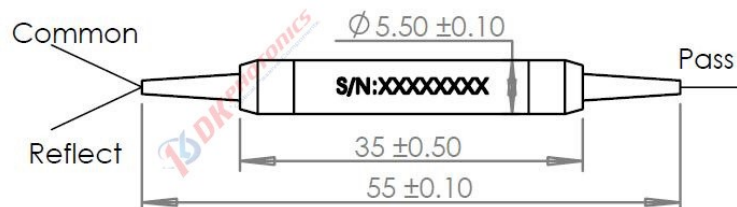
Add.:

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	Mux (Add)	Demux (Drop)
Channel Wavelength	nm	1530.33 ~ 1560.61 (21~ 59 ITU grid)	
Center Wavelength Accuracy	nm	± 0.05	
Minimum Channel Spacing	GHz	100	
Channel Passband (@-0.5dB bandwidth)	nm	≥ 0.22	
Insertion Loss	Add / Drop Ch.	dB	
	Express Ch.	dB	
Add / Drop Channel Ripple	dB	≤ 0.3	
Isolation @Add/Drop Channel	Adjacent	dB	
	Non-adjacent	dB	
Express Channel Isolation	dB	> 10	
Insertion Loss Temperature Sensitivity	dB/°C	≤ 0.003	
Wavelength Temperature Shifting	nm/°C	≤ 0.002	
Polarization Dependent Loss	dB	≤ 0.10	
Polarization Mode Dispersion	ps	≤ 0.1	
Directivity	dB	> 50	
Return Loss	dB	> 45	
Power Handling	mW	500	
Fiber Type	-	SMF-28e	
Operating Temperature	°C	0 ~ +70	
Storage Temperature	°C	-40 ~ +85	
Package Dimensions	mm	Ø5.5 x L35	

1.The above specification is without connector.

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

Order information

P/N: DWDM-1x2-①-②-③-④-⑤-⑥

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
Channel Spacing	configuration	ITU Channel	Pigtails Diameter	Fiber Length	Connector
10:100GHz	A:Add D:Drop	C21:1560.61nm C23:1558.98nm	25:250µm bare fiber 90:900µm loose tube XX: Others	05:0.5m 10:1.0m 15:1.5m XX: Others	00: None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC XX: Others

Part Number Example: DWDM-1x2-10-D-C21-90-10-FA

Description: 100GHz 1x2 DWDM Device, C21 channel, with 0.9mm OD loose tube, 1.0m length fiber pigtails, 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.