DK PHOTONICS
Optical Passive Components

980/1030nm Polarization Maintaining WDM/Tap Coupler Hybrid Combination

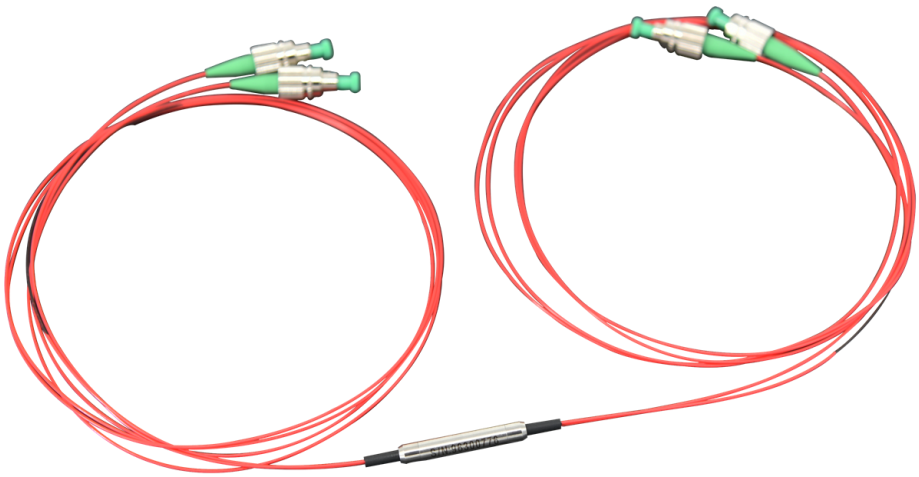
Key Features

- Compact Size
- Low insertion loss
- High channel Isolation
- High Extinction Ratio
- High stability and reliability

DK Photonics' WDM/Tap Coupler Hybrid Combination is a combination of a wavelength division multiplexer and tap coupler in a compact package. All input and output fibers are polarization maintaining. This product has an extremely low insertion loss, a very stable tap-coupling ratio, high isolation, and high return loss. This product offers integrated solution to amplifier application by combining more functions into a very compact package.

Applications

- Fiber laser
- Fiber amplifier
- Fiber Sensor
- Communications
- Laboratory R&D



For more Info

Please contact us at:

Tel: +86-755-23736280

Fax: +86-755-26746512

E-mail: sales@dkphotonics.com

https://www.dkphotonics.com

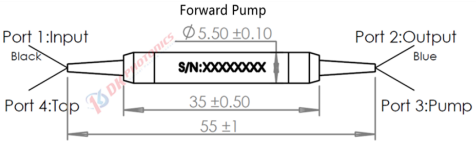
Add.:

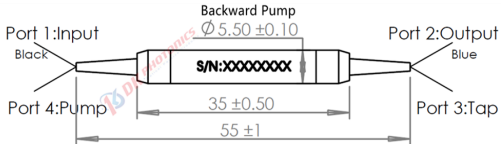
4F, Bldg. 18, Qinghu Industrial Park,

Dahe Road, Longhua Dis.,

Shenzhen, China 518109

Package Dimension





* For forward pump, Tap is both axis working. For backward pump, Tap is fast axis blocked, slow axis working. Both types pump is both axis working.

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

PM Hybrid Components Series

980/1030nm Polarization Maintaining WDM/Tap Coupler Hybrid Combination

Performance Specifications

Parameter		Unit	Values
Signal Central Wavelength (λ c)		nm	1030
Signal Wavelength Range		nm	1025~1080
Max. Excess Loss, λ c, @ 23℃		nm	1.0
Tap Ratio		%	1~50
Tap Channel Typ. Loss		dB	1%(19.0~21.0), 2%(16.2 ~ 19.0), 5%(12.2 ~ 15.0)
Min. Isolation (WDM)	Signal Channel	dB	25
	Pump Channel	dB	12
Pump Wavelength Range		nm	960~990
Max. Insertion Loss (Pump to Common)		dB	0.7
Min. Extinction Ratio @ 23℃		dB	Type B: 20, Type F: 22
Min. Return Loss		dB	50
Max. Power Handling (CW)		W	0.5, 2, 3, 10
Max. Peak Power for Pulse		kW	1, 5,10
Max. Tensile Load		N	≤5
Fiber Type		-	PM980-XP or Specified
Operating Temperature		℃	-5 to +70
Storage Temperature		℃	-40 to +85
Package Dimensions		mm	Ø5.5 x L35 (Ø5.5 x L38 for backward pumping)

1. Above specifications are for device without connector.
2. For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower and ER will be 2dB lower. The default connector key is aligned to slow axis. Power transmits through the connector less than 2W.
3.Type B: Both axis working, Type F: Fast axis blocked, the default is Type B if without request.
4. If there is pulse application, please be sure to inform us of pulse energy and peak power.
5. For forward pumping, Tap is both axis working, for backward pumping, signal output and Tap are both fast axis blocked, slow axis working. If you have questions about the axial direction, please contact us.

Order information

P/N:PMWTH-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 250μm bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦	⑧
Wavelength	Optical Power	Tap Ratio	Pump Configuration	Axis alignment (Only for signal)	Pigtail Diameter	Fiber Length	Connector
39:1030 signal /980 pump	L:<0.5W 2:2W 5:5W 10:10W	01:1% Tap 02:2% Tap 05:5% Tap	F: Forward Pump B: Backward Pump	F: Fast axis blocked, Slow axis working B: Both of axis working	25:250μm bare fiber 90:900μm Loose Fiber XX: Others	05:0.5m 10:1.0m 15:1.5m XX: Others	00: None FP: FC/PC FA: FC/APC SA: SC/APC XX: Others

Part Number Example: PMWTH-39-L-01-B-F-90-10-FA

Description: Polarization Maintaining WDM/Tap Coupler Hybrid Combination, 1030nm signal/980nm pump, 1% tap, backward pump, fast axis blocked, slow axis working, 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.