

980/1550nm Polarization Maintaining WDM/Isolator Hybrid Combination

DK Photonics' WDM//Isolator Hybrid Combination is a combination of a wavelength division multiplexer and an isolator 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.

Key Features

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

Applications

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



For more Info

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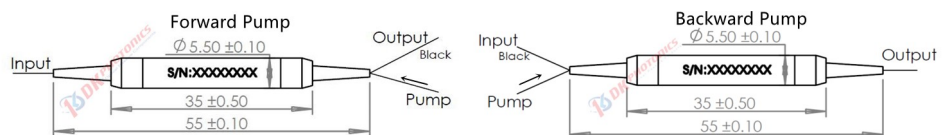
Add.:

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Package Dimension



* Pump port 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.

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Performance Specifications

Parameter	Unit	Values	
Stage of Isolator	-	Single Stage	
Signal Central Wavelength (λ_c)	nm	1550	
Signal Wavelength Range	nm	1528~1565(C Band), 1570~1605(L Band)	
Max. Signal Insertion Loss, λ_c , @ 23°C	nm	1.1	1.3
Min. Signal Isolation, λ_c , @ 23°C(Isolator)	nm	31	45
Min. Isolation	dB	30	
(WDM) Signal Channel	dB	12	
Pump Channel	dB	12	
Pump Wavelength Range	nm	960~990	
Max. Insertion Loss (Pump to Common)	dB	0.6	
Min. Extinction Ratio @ 23°C	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 fiber or Specified for Pump port PM1550-XP fiber or Specified for Common Signal port	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	
Package Dimensions	mm	Ø5.5 x L35	

- Above specifications are for device without connector.
- 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.
- Type B: Both axis working, Type F: Fast axis blocked, the default is Type B if without request.
- If there is pulse application, please be sure to inform us of pulse energy and peak power.
- If you have questions about the axial direction, please contact us.

Order information P/N:PMWIH-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 250 μ m bare fiber pigtail.

①	②	③	④	⑤	⑥	⑦	⑧
Wavelength	Stage	Optical Power	Pump Configuration	Axis alignment (Only for signal)	Pigtail Diameter	Fiber Length	Connector
59:1550 signal /980 pump	S: Single Stage D: Dual Stage	L:<0.5W 1:1W 3:3W 5:5W 10:10W	F: Forward Pump B: Backward Pump	F: Fast axis blocked, Slow axis working B: Both of axis working	25:250 μ m bare fiber 90:900 μ m Loose Fiber 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 XX: Others

Part Number Example: PMWIH-S-59-1-B-F-90-10-FA

Description: Polarization Maintaining WDM/Isolator Hybrid Combination, 1W handling power, 1550nm signal/980nm pump, single stage isolator, 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.