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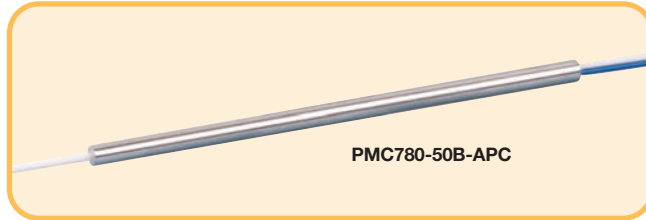
Termination

# 1 x 2 Polarization-Maintaining Fiber Couplers

Thorlabs offers 1 x 2 high-performance polarization-maintaining fused fiber couplers. Thorlabs offers both 50:50 and 90:10 coupling ratios with either FC/PC or FC/APC connectors. Notable features include low excess loss, small package size, and high polarization extinction ratio. The PMC Series couplers are commonly used for optical sensors, optical amplifiers, and fiber gyroscopes.

### Features

- Low Loss
- High Polarization Extinction Ratio
- 50:50 or 90:10 Coupling Ratio
- FC/PC or FC/APC Connectors on Both Ends
- 2.0 mm Narrow Key Connectors
- Key Aligned to Slow Axis



### Applications

- Optical Sensor
- Polarization-Maintaining Fiber Laser
- Power Monitoring
- Fiber Gyroscopes

### Performance Specifications

SERIES	PMC780	PMC1060	PMC1310	PMC1550
Center Wavelength	780 nm	1060 nm	1310 nm	1550 nm
Bandwidth	±15 nm	±15 nm	±15 nm	±15 nm
Extinction Ratio	≥16.0 dB	≥18.0 dB	≥18.0 dB	≥18.0 dB
Coupling Ratio	50:50 90:10	50:50 90:10	50:50 90:10	50:50 90:10
Insertion Loss	≤4.1/4.1 dB (50:50) ≤1.6/12.0 dB (90:10)	≤3.7/3.7 dB (50:50) ≤1.2/11.6 dB (90:10)	≤3.6/3.6 dB (50:50) ≤0.95/11.3 dB (90:10)	≤3.6/3.6 dB (50:50) ≤0.95/11.3 dB (90:10)
Excess Loss (Typical)	≤0.6 dB	≤0.4 dB	≤0.3 dB	≤0.3 dB
Directivity	≥55 dB	≥55 dB	≥55 dB	≥55 dB
Operating Temperature	-20 to 70 °C	-20 to 70 °C	-20 to 70 °C	-20 to 70 °C
Fiber Length	0.8 m each leg	0.8 m each leg	0.8 m each leg	0.8 m each leg
Fiber Jacket	900 μm loose tubing	900 μm loose tubing	900 μm loose tubing	900 μm loose tubing
Dimension	Ø3 mm x 70 mm	Ø3 mm x 70 mm	Ø3 mm x 70 mm	Ø3 mm x 70 mm

Note: Thorlabs uses both narrow (2.0 mm) and wide (2.14 mm) key FC connectors in its product line. Narrow key connectors are used on connectorized fiber, while wide key connectors are used on fiber bulkheads (with few exceptions). This ensures that our connectorized fibers are compatible with all of our mating components.

**NEW**  
versions

### FC/PC Polarization-Maintaining 1 x 2 Couplers

ITEM #	DESCRIPTION	\$	£	€	RMB
PMC780-50B-FC	1 x 2 PM Coupler, 780 nm, 50:50, FC/PC, Aligned to Slow Axis	\$ 1,287.10	£ 926.71	€ 1,119.78	¥ 10,258.19
PMC780-90B-FC	1 x 2 PM Coupler, 780 nm, 90:10, FC/PC, Aligned to Slow Axis	\$ 1,287.10	£ 926.71	€ 1,119.78	¥ 10,258.19
PMC1060-50B-FC	1 x 2 PM Coupler, 1060 nm, 50:50, FC/PC, Aligned to Slow Axis	\$ 1,121.40	£ 807.41	€ 975.62	¥ 8,937.56
PMC1060-90B-FC	1 x 2 PM Coupler, 1060 nm, 90:10, FC/PC, Aligned to Slow Axis	\$ 1,121.40	£ 807.41	€ 975.62	¥ 8,937.56
PMC1310-50B-FC	1 x 2 PM Coupler, 1310 nm, 50:50, FC/PC, Aligned to Slow Axis	\$ 855.70	£ 616.10	€ 744.46	¥ 6,819.93
PMC1310-90B-FC	1 x 2 PM Coupler, 1310 nm, 90:10, FC/PC, Aligned to Slow Axis	\$ 855.70	£ 616.10	€ 744.46	¥ 6,819.93
PMC1550-50B-FC	1 x 2 PM Coupler, 1550 nm, 50:50, FC/PC, Aligned to Slow Axis	\$ 855.70	£ 616.10	€ 744.46	¥ 6,819.93
PMC1550-90B-FC	1 x 2 PM Coupler, 1550 nm, 90:10, FC/PC, Aligned to Slow Axis	\$ 855.70	£ 616.10	€ 744.46	¥ 6,819.93

### FC/APC Polarization-Maintaining 1 x 2 Couplers

ITEM #	DESCRIPTION	\$	£	€	RMB
PMC780-50B-APC	1 x 2 PM Coupler, 780 nm, 50:50, FC/APC, Aligned to Slow Axis	\$ 1,317.10	£ 948.31	€ 1,145.88	¥ 10,497.29
PMC780-90B-APC	1 x 2 PM Coupler, 780 nm, 90:10, FC/APC, Aligned to Slow Axis	\$ 1,317.10	£ 948.31	€ 1,145.88	¥ 10,497.29
PMC1060-50B-APC	1 x 2 PM Coupler, 1060 nm, 50:50, FC/APC, Aligned to Slow Axis	\$ 1,151.40	£ 829.01	€ 1,001.72	¥ 9,176.66
PMC1060-90B-APC	1 x 2 PM Coupler, 1060 nm, 90:10, FC/APC, Aligned to Slow Axis	\$ 1,151.40	£ 829.01	€ 1,001.72	¥ 9,176.66
PMC1310-50B-APC	1 x 2 PM Coupler, 1310 nm, 50:50, FC/APC, Aligned to Slow Axis	\$ 885.70	£ 637.70	€ 770.56	¥ 7,059.03
PMC1310-90B-APC	1 x 2 PM Coupler, 1310 nm, 90:10, FC/APC, Aligned to Slow Axis	\$ 885.70	£ 637.70	€ 770.56	¥ 7,059.03
PMC1550-50B-APC	1 x 2 PM Coupler, 1550 nm, 50:50, FC/APC, Aligned to Slow Axis	\$ 885.70	£ 637.70	€ 770.56	¥ 7,059.03
PMC1550-90B-APC	1 x 2 PM Coupler, 1550 nm, 90:10, FC/APC, Aligned to Slow Axis	\$ 885.70	£ 637.70	€ 770.56	¥ 7,059.03