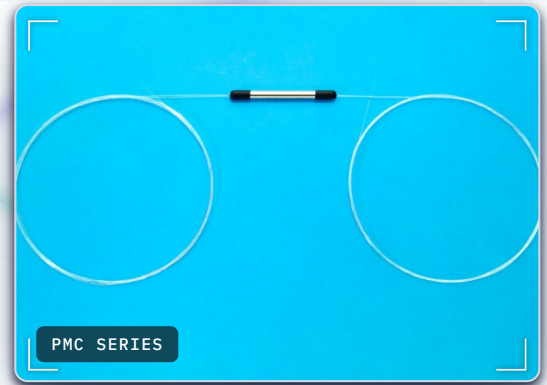


FIBER OPTIC COMPONENTS – PM COUPLER

Polarization Maintaining (PM) Coupler

Micro-optic PM fiber coupler for signal monitoring and splitting, with coupling ratios from 1% to 50%.



PRODUCT OVERVIEW

Polarization Maintaining (PM) Coupler used for monitoring or splitting optical signals in Polarization Maintaining fiber. The component is available in any coupling ratio from 1% to 50%. Employing our proven advanced micro-optic design, it features low insertion loss, high extinction ratio, an epoxy-free optical path, high stability, high reliability and a compact package.

Key Features

- Low crosstalk
- Low insertion loss
- High extinction ratio

Applications

- Optical amplifiers
- Fiber lasers
- Fiber sensor
- Coherent communication

GENERAL & OPTICAL SPECIFICATIONS

PARAMETER	P GRADE	A GRADE	UNIT
Operating Wavelength	1310±40, 1550±40, 850±30 or other		nm
Typical excess loss	0.2	0.35	dB
Extinction ratio (ER)	25	20	dB
Min. extinction ratio over full temperature	≥23	≥18	dB
Splitting ratio	1/99 – 50/50		%
Splitting ratio error	≤3	≤5	%
Directivity			dB
Optical power handling	< 300		mW
Operating temperature range	-40 ~ 70 Or -5 to 70		°C
Storage temperature	-55 ~ 85		°C
Pigtail length	1 meter or custom		m
Fiber configuration	1×2, 2×2 or 3×3		—
Fiber type	9/125 Panda or 80μ		—
Package dimension	Ø3.0 × 35		mm

ORDERING INFORMATION

PMC / ① – ② – ③ – ④ – ⑤ – ⑥

① PORT	② OPERATING WAVELENGTH	③ COUPLING RATIO	④ FIBER TYPE	⑤ FIBER DIAMETER	⑥ FIBER LENGTH	⑦ CONNECTOR
1: 1×2	85: 850 nm	50: 50/50	P1: 9/125	2: 250 μm	1: 0.8 m	00: bare fiber
2: 2×2	13: 1310 nm	40: 40/60	P2: 80 μ	9: 900 μm	2: 1.0 m	FA: FC/APC
3: 3×3	15: 1550 nm	30: 30/70	X: XX	2: 2.0 mm	X: XX	SA: SC/APC
—	X: XXX	X: XX	X: XX	3: 3.0 mm	—	LA: LC/APC

Note 1 — The PM fiber and connector key are aligned to the slow axis. **Note 2** — IL, RL and ER values specified are without connector loss. **Note 3** — Specifications are subject to change without notice.