

780-1550nm 1x2 / 2x2 PM Filter Coupler

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Product Overview

Polarization-maintaining filter coupler for amplifier, sensing and fiber-instrument applications, available in 1x2 and 2x2 configurations with split ratios from 1/99 to 50/50.

Features	Applications
Low insertion loss; High return loss; High extinction ratio	Erbium-doped & Raman fiber amplifiers; Fiber sensors; Fiber optic instruments

Technical Specifications

For configuration selection and quotation, use the Component Finder at www.kernsoptic.com/contacts. Final special configurations are subject to engineering review.

Parameter	Unit	1x2 1550/1310	1x2 1064/980	1x2 850/780	2x2 1550/1310	2x2 1064/980	2x2 850/780
Operating Range	nm	±40	±20	±10	±40	±20	±10
Max. Additional Loss	dB	0.7	0.8	0.8	1.0	1.2	1.2
Uniformity (50/50 only)	dB	0.4	0.5	0.6	0.6	0.8	0.8

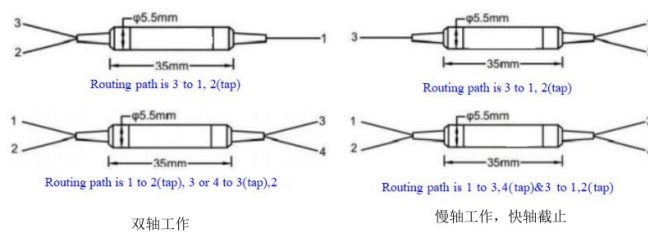
Shared Specifications

Parameter	Specification	Unit
Splitting Ratio	1/99 to 50/50	-
Min. Extinction Ratio - Both Axis Working	20	dB
Min. Extinction Ratio - Fast Axis Block	22	dB
Min. Return Loss	50	dB
Max. Optical Power (CW)	500	mW
Max. Tensile Load	5	N
Input & Output Fiber	PM Panda fiber	-
Tap Fiber	PM Panda / 780-HP / Hi1060 / SMF-28e	-
Operating Temperature	-5 to +70	°C
Storage Temperature	-40 to +85	°C

With connectors, power handling is limited to 1 W; IL increases by 0.3 dB, RL decreases by 5 dB and ER decreases by 2 dB.

Package Dimensions

封装尺寸



Routing examples and package drawing from the KernsTech master catalog. Standard package: dia. 5.5 x 35 mm.