

(2+1)x1 PM Pump and Signal Combiner

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Product Overview

Polarization-maintaining pump and signal combiner for high-power fiber lasers and fiber amplifiers, with (1+1)x1 and (2+1)x1 port options.

Features	Applications
High transmission efficiency; High stability and reliability; Custom configuration available	High-power fiber lasers; Fiber amplifiers

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	X/125	X/250	20/400
Pump Efficiency	>90%	>93%	>95%
Max. Power / Pump	≤50 W	≤100 W	≤200 W

Shared Specifications

Parameter	Specification	Unit
Port Configuration	(1+1)x1 or (2+1)x1	-
Pump Wavelength	800-1000	nm
Signal Wavelength	1030-1080 or 1450-1600	nm
Signal Insertion Loss	≤0.5	dB
Polarization Extinction Ratio	≥18 (PM fiber type)	dB
Return Loss	>45	dB
Operating Temperature	-5 to +70	°C
Storage Temperature	-40 to +85	°C

Package Dimensions

Package	Dimensions
D1	dia. 4.0 x 60 mm
D3	70 x 12 x 8 mm
D2/D4-D7	Available per engineering configuration
Custom	Engineering review

The master catalog lists D1-D7 or customized packaging; final package depends on fiber and power configuration.