

(6+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 configurable input/output fibers and package options.

Features	Applications
High transmission efficiency; Stable and reliable; Custom configurations available	High-power fiber laser; Fiber amplifier

Technical Specifications

Parameter	Specification	Unit
Port Configuration	(6+1) x 1	-
Pump Wavelength	800-1000	nm
Signal Wavelength	1030-1080 or 1450-1600	nm
Input Signal Fiber	X/125; X/125, X/250 or 20/400	-
Pump Fiber	105/125, 0.22NA; 105/125 or 200/220, 0.22NA	-
Output Signal Fiber	Y/125; Y/250; Y/250; 20/400	-
Pump Efficiency	>90; >93; >95	%
Signal Insertion Loss	≤0.7 (Typical 0.5)	dB
Max. Pump Power per Pump	≤50; ≤100; ≤200	W
Polarization Extinction Ratio	≥18 (PM fiber type)	dB
Return Loss	>45	dB
Package Dimensions	D6, D7 or Customized	mm
Operating Temperature	-5 to +70	°C
Storage Temperature	-40 to +85	°C

For configuration selection and quotation, use the Component Finder at www.kernsoptic.com/contacts. Select the wavelength, optical power, fiber, connector and other requirements online before requesting a quote.

The catalog lists multiple fiber and power configurations. Final fiber combination, pump power, signal power and package are subject to engineering review.

Package Dimensions

The master catalog specifies package options D6, D7 or Customized. No mechanical dimension drawing is provided in the source catalog; final package dimensions are confirmed during engineering review.