

(N+1) × 1 Multi-Mode Pump Combiner (MPC N+1 × 1, N=1, 2, 4, 6)

Description

This (N+1) × 1 (N=1, 2, 4, 6) multi-mode fiber combiner can be used for high power fiber laser and fiber amplifier applications, which can combine N pump lasers and 1 signal channel into one fiber and create a high power pump laser source for fiber laser and fiber amplifier.

Key Features

- High Power Transfer Efficiency and Low Signal loss
- Wavelength Insensitivity
- Custom Configurations Available

Configuration Options and Specifications

Configuration	Working WL	Pump fiber	Signal fiber	Output fiber	Pump effi.
		(Core/clad, NA)			Signal IL
(1+1) × 1	Pump: 800-1000nm Signal: 1060nm 1550nm	105/125, 0.15	Corning HI1060	6/125, DCF 8/125, DCF 10/125, DCF 15/125, DCF 20/125, DCF x/250 DCF (x=25,30um) x/400, DCF (x=10, 20, etc)	Typical 90% and 0.5dB Depends on different configurations
(2+1) × 1			6/125, DCF		
(3+1) × 1			8/125, DCF		
(4+1) × 1			10/125, SCF or DCF		
(5+1) × 1			15/125 SCF or DCF		
(6+1) × 1			20/125 SCF or DCF		
		25/250 SCF or DCF			
		30/250 SCF or DCF			
		20/400 SCF or DCF			

Remark: 1. Detail configuration might be discussed with Lightcomm's engineer.

2. SCF means single cladding fiber, DCF means double cladding fiber.

Mechanical Dimension

