

(2+1)×1 Multi-Mode Pump Combiner (MPC)

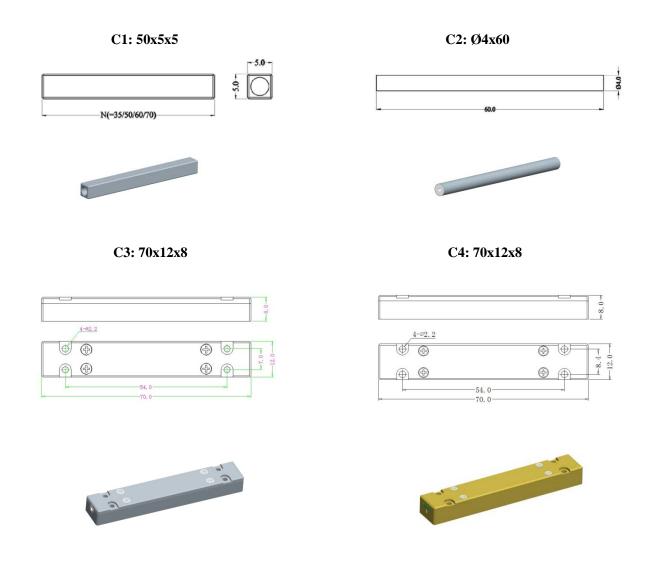
Description

This $(2+1)\times 1$ multi-mode fiber combiner is designed for high power fiber laser application. It combines two pump lasers and one signal channel into one double cladding output fiber. Fiber type can be customized.

Key Features

- High Signal Transfer Efficiency
- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

Mechanical Dimension





Unit: mm

Specifications

Parameters/Test conditions			Min	Тур.	Max	Unit	Note
1	Signal Operating Wavelength		1000	1064	1100	nm	
2	Pump Operating Wavelength		800		1000	nm	
3	Pump Fiber	Core Diameter		105		μm	Refer to fiber codes
4		Cladding Diameter		125		μm	
5		Numerical Aperture		0.15, 0.22		-	
6	Signal Fiber		20/125 SCF or 20/125 DC			CF	Refer to fiber codes
		Pump Efficiency		Signal Insertion		Refer to fiber codes	
		(%)		Loss (dB)			
7	Output	20/125 DCF *	>90 (Typ. 93)		<0.5 (Typ. 0.3)		Refer to fiber codes
	Fiber	20/125 DCF **	>90 (Typ. 93)		<0.7 (Typ. 0.5)		
8	M^2				1.3	-	
9	Optical Isolation		25	30		dB	
10	Fiber Length		0.8			m	Each port
11	Power Handling			25	50	W	Each port
12	Operating Environment Temperature		-5		+70	°C	
13	Operating Humidity		5		95	%RH	Not recommend in high
15							humidity for long time.
14	Storage Temperature		-40		+85	°C	
15	Package		C1, C2, C3, C4			-	Handling power is
10							different with PKG

* 20/125 DCF signal fiber to 20/125 DCF;

** 20/125 SCF signal fiber to 20/125 DCF.

Ordering Information

MPC-(2+1)×1-F(B)-Pump wavelength/Pump power-Signal wavelength-Pump fiber/Signal fiber-Output fiber-Package-Fiber length

Note :

F: Forward pump; B: Backward pump.
Pump/Signal/Output fiber: refer to fiber codes.
Package: C1, C2, C3, C4
C1: 10W/port; C2: 10W/port; C3: 25W/port; C4: 50W/port