

# (6+1)×1 Multi-Mode Pump Combiner (MPC)

## Description

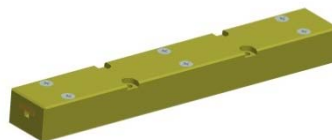
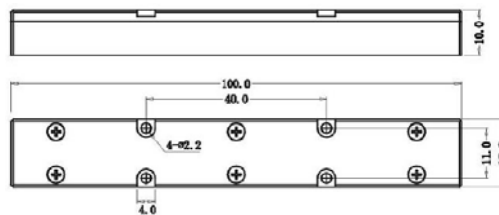
This (6+1)×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines six pump lasers and one signal channel into one double cladding output fiber. Fiber type can be customized.

## Key Features

- High Signal Transmission Efficiency
- High Pump Efficiency
- Wavelength Insensitive
- High Power Handling Capability
- Custom Configurations Available

## Mechanical Dimension

**C7: 100x15x10**



**Unit: mm**

## Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Signal Operating Wavelength	1000	1064	1100	nm	
2	Pump Operating Wavelength	800		1000	nm	
3	Pump Fiber	Core Diameter	200	220	μm	Refer to fiber codes: “140”: 200/220 0.22NA “143”: 220/242 0.22NA
4		Cladding Diameter	220	242	μm	
5		Numerical Aperture	0.22		-	
6	Signal Fiber	x/250 SCF or DCF x/400 DCF				x=20,25*;
7	Output Fiber	20/400 DCF 25/400 DCF				
8	Pump Efficiency	95	98		%	
9	Signal Insertion Loss		0.4	0.5	dB	
10	Power Handling			200	W	Each port
11	M <sup>2</sup>		1.1	1.3	-	
12	Optical Return Loss	40	45		dB	
13	Optical Isolation	20			dB	
14	Fiber Length	0.8			m	Each port
15	Operating Environment Temperature	-5		+70	°C	
16	Operating Humidity	5		95	%RH	Not recommend in high humidity for long time.
17	Storage Temperature	-40		+85	°C	
18	Package	C7			-	

\* The core diameter of signal input fiber should be less than or equal to the core diameter of output fiber.

## Ordering Information

MPC-(6+1)×1-F-Pump wavelength/Pump power-Signal wavelength-Pump fiber/Signal fiber-Output fiber-Package-Fiber length

## Note :

Pump/Signal/Output fiber: refer to fiber codes.

Package: C7