

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

## Description

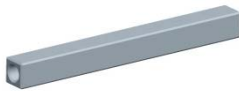
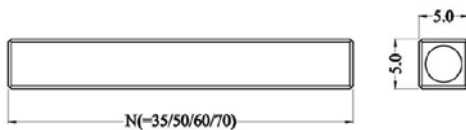
This (6+1)×1 multi-mode fiber combiner is designed for high power EDFA application. It combines six pump lasers and one signal channel into one double cladding output fiber. Fiber type can be customized.

## Key Features

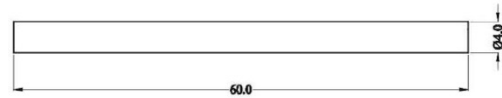
- High Signal Transfer Efficiency
- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

## Mechanical Dimension

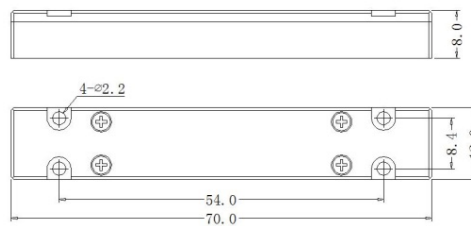
**C1: 50x5x5**



**C2: Ø4x60**



**C4: 70x12x8**



**Unit: mm**

## Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note	
1	Signal Operating Wavelength	1500	1550	1600	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	0.22		-		
6	Signal Fiber	SMF-28e (XB) or 1550GDF or DCF-UN-8/125-14				Refer to fiber codes	
		Pump Efficiency (%)		Signal Insertion Loss (dB)		Power Handling (W, each port)	
7	Output Fiber	1550GDF	>88 (Typ. 92)		<0.7 (Typ. 0.5)		25
		DCF-UN-8/125-14	>88 (Typ. 92)		<0.7 (Typ. 0.5)		25
8	M <sup>2</sup>			1.3	-		
9	Optical Isolation	20			dB		
10	Fiber Length	0.8			m	Each port	
11	Operating Environment Temperature	-5		+70	°C		
12	Operating Humidity	5		95	%RH	Not recommend in high humidity for long time.	
13	Storage Temperature	-40		+85	°C		
14	Package	C1, C2, C4			-	Handling power is different with PKG	

## Ordering Information

MPC-(6+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, C4

C1: 5W/port; C2: 5W/port; C4: 25W/port