

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

## Description

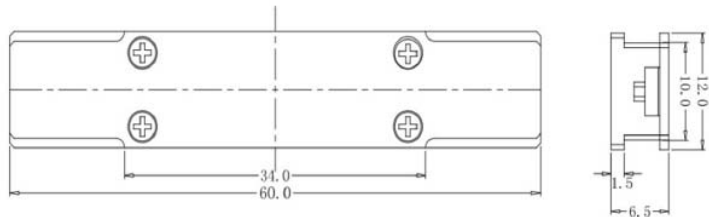
This PM (6+1)×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines six pump lasers and one PM signal channel into one double cladding PM output fiber. Fiber type can be customized.

## Key Features

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

## Mechanical Dimension

**S2: 60×12×6.5**



**Unit: mm**

## Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Signal Operating Wavelength	1000	1064	1100	nm	
2	Pump Operating Wavelength	800	915	1000	nm	
3	Pump Fiber	Core Diameter	200		μm	Nufern MM-S200/220-22A, Fiber code "140".
4		Cladding Diameter	220		μm	
5		Numerical Aperture	0.22		-	
6	Signal Fiber	PM 10/125 SCF 0.08NA				Nufern FUD-3460, Fiber code "601"
7	Output Fiber	PM 20/400 DCF 0.06/0.46NA				Nufern PLMA-GDF-20/400-M, Fiber code "643"

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
8	Pump Efficiency	98			%	
9	Signal Insertion Loss			0.5	dB	
10	Power Handling			200	W	Each port
11	PER	15			dB	
12	M <sup>2</sup>			1.3	-	
13	Optical Isolation	20			dB	
14	Optical Return Loss	45			dB	
15	Fiber Length	1			m	Each port
16	Operating Environment Temperature	-5		+70	°C	
17	Operating Humidity	5		95	%RH	Not recommend in high humidity for long time.
18	Storage Temperature	-40		+85	°C	
19	Package	S2				60×12×6.5mm

### Ordering Information

PMMPC-(6+1)×1-F-915/200W-1064-140/601-643-S2-1m