

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

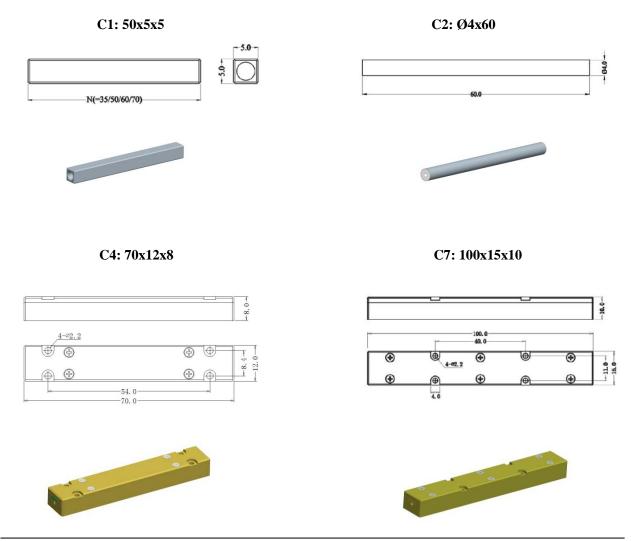
Description

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





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		Core Diameter		105		μm		
4		Cladding Diameter	125			μm	Refer to fiber codes	
5		Numerical Aperture	0.22			-		
6	Signal Fiber		PM 15/125 SCF or PM 15/12			25 DCF	Refer to fiber codes	
		Pump Efficiency		Signal Insertion		Power Handling		
			(%)		Loss (dB)		(W, each port)	
7	Output Fiber	PM 15/125 DCF	>88 (Ty	p. 92)	<0.7 (Typ. 0.5)		25	
		PM 20/125 DCF	>88 (Ty	>88 (Typ. 92) <0.7 (Typ.		p. 0.5)	25	
		PM 20/200 DCF	>93 (Typ. 95)		<0.7 (Typ. 0.5)		25	
		PM 25/250 DCF	>93 (Typ. 95)		<0.7 (Typ. 0.5)		25	
		PM 30/250 DCF	>93 (Typ. 95)		<0.7 (Typ. 0.5)		25	
		PM 20/400 DCF	>95 (Typ. 97) <		<0.7 (Typ. 0.5)		25	
8	PER		18			dB	core diameter < 25um	
0			16			dB	core diameter≥25um	
9	M^2				1.3	-		
10	Optical Isolation		20			dB		
11	Fiber Length		0.8			m	Each port	
12	Operating Environment Temperature		-5		+70	°C		
13	Operating Humidity		5		95	%RH	Not recommend in high	
13			J				humidity for long time.	
14	Storage Temperature		-40		+85	°C		
15	Package		C1, C2, C4, C7			-	Handling power is different with PKG	

Ordering Information

 $PMMPC-(6+1)\times 1-F(B)-Pump\ wavelength/Pump\ power-Signal\ wavelength-Pump\ fiber/Signal\ fiber-Output\ fiber-Package-Fiber\ length$

Note:

F: Forward pump; B: Backward pump.

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

Package: C1, C2, C4, C7

C1: 5W/port; C2: 5W/port; C4: total power < 150W, C7: total power >=150W