

# PM (2+1)×1 Multi-Mode Pump Combiner (PMMPC)

## Description

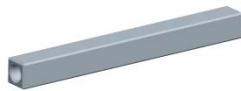
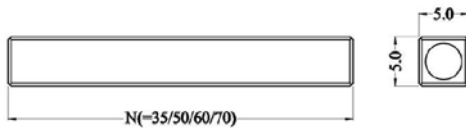
This PM (2+1)×1 multi-mode fiber combiner is designed for high power PM EDFA application. It combines two pump lasers and one PM signal channel into one double cladding PM output fiber. Fiber type can be customized.

## Key Features

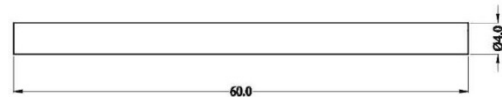
- High Signal Transfer Efficiency
- High Pump Efficiency
- High PER
- Wavelength Insensitive
- Custom Configurations Available

## Mechanical Dimension

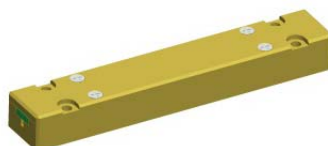
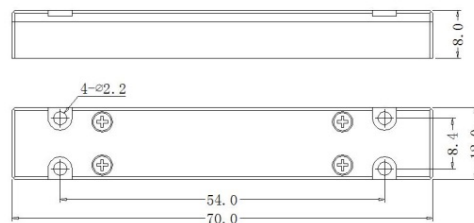
**C1: 50x5x5**



**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	0.15, 0.22		-	
6	Signal Fiber	PM1550 or PM 1550 DCF				Refer to fiber codes
7	Output Fiber	PM 1550 DCF				Refer to fiber codes
8	Pump Efficiency	90	93		%	
9	Signal Insertion Loss		0.3	0.5	dB	
10	PER	18			dB	
11	M <sup>2</sup>			1.3	-	
12	Optical Isolation	25	30		dB	
13	Fiber Length	0.8			m	Each port
14	Power Handling			25	W	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	C1, C2, C4			-	Handling power is different with PKG

**Ordering Information**

PMMPC-(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, C4

C1: 10W/port; C2: 10W/port; C4: 25W/port