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

Description

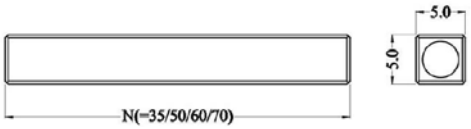
This PM (2+1)×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines two pump lasers and one PM signal channel into one double cladding PM output fiber. Fiber type can be customized.

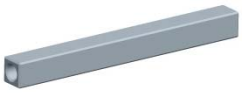
Key Features

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

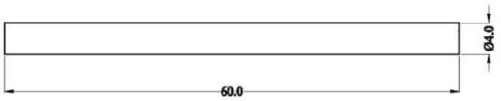
Mechanical Dimension

C1: 50x5x5

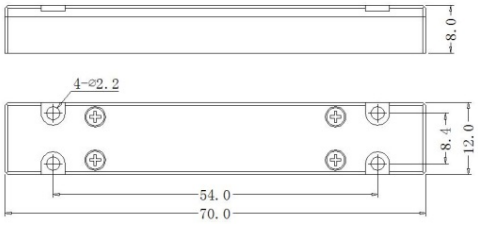


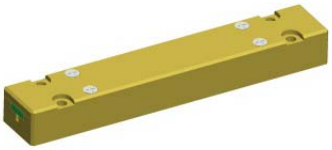


C2: Ø4x60



C4: 70x12x8





Unit: mm

Specifications

Parameters/Test conditions			Min	Typ.	Max	Unit	Note
1	Signal Operating Wavelength		1000	1064	1100	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		PM 12/125 SCF or PM 12/125 DCF				Refer to fiber codes
			Pump Efficiency (%)		Signal Insertion Loss (dB)		Refer to fiber codes
7	Output Fiber	PM 12/125 DCF *	>90（Typ. 93）		<0.5（Typ. 0.3）		
		PM 12/125 DCF **	>90（Typ. 93）		<0.7（Typ. 0.5）		
		PM 15/125 DCF	>90（Typ. 93）		<0.7（Typ. 0.5）		
		PM 20/125 DCF	>90（Typ. 93）		<0.7（Typ. 0.5）		
8	PER		18			dB	
9	M^2				1.3	-	
10	Optical Isolation		25	30		dB	
11	Fiber Length		0.8			m	Each port
12	Power Handling				25	W	Each port
13	Operating Environment Temperature		-5		+70	°C	
14	Operating Humidity		5		95	%RH	Not recommend in high humidity for long time.
15	Storage Temperature		-40		+85	°C	
16	Package		C1, C2, C4			-	Handling power is different with PKG

* PM 12/125 DCF signal fiber to PM 12/125 DCF;

** PM 12/125 SCF signal fiber to PM 12/125 DCF.

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