

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

## **Description**

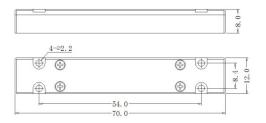
This  $(2+1)\times 1$  multi-mode fiber combiner is designed for high power 2micron fiber laser application. It combines two pump lasers and one signal channel into one double cladding output fiber. Fiber type can be customized.

### **Key Features**

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

#### **Mechanical Dimension**

C4: 70x12x8





Unit: mm



## **Specifications**

Parameters/Test conditions			Min	Тур.	Max	Unit	Note
1	Signal Operating Wavelength		1900		2100	nm	
2	2 Pump Operating Wavelength		700		900	nm	
3	Pump Fiber	Core Diameter		200		μm	Refer to fiber codes
4		Cladding Diameter		220		μm	
5		Numerical Aperture		0.22		-	
6	6 Signal Fiber		25/400 0.11/0.46NA DCF				Refer to fiber codes
7	Output Fiber		25/400 0.11/0.46NA DCF				Refer to fiber codes
8	Pump Efficiency		90	93		%	
9	Signal Insertion Loss			0.3	0.5	dB	
10	$M^2$				1.3	-	
11	Optical Isolation		25	30		dB	
12	Fiber Length		0.8			m	Each port
13	Power Handling			25	50	W	Each port
14	Operating Environment Temperature		-5		+70	°C	
15	15 Operating Humidity		5		95	%RH	Not recommend in high
13							humidity for long time.
16	Storage Temperature		-40		+85	°C	
17	Package		C4			-	

# **Ordering Information**

 $MPC-(2+1)\times 1-F(B)-Pump\ wavelength/Pump\ power-Signal\ wavelength-Pump\ fiber/Signal\ fiber-Output\ fiber-Package-Fiber\ length-Pump\ fiber/Signal\ fiber-Output\ fiber-Package-Fiber\ length-Pump\ fiber/Signal\ fiber-Output\ fiber-Package-Fiber\ length-Pump\ fiber-Package-Fiber\ fiber-Package-Fiber-Package-Fiber\ fiber-Package-Fiber\ fiber-Package-Fiber-Fiber\ fiber-Package-Fiber\ fiber-Pa$ 

#### Note:

F: Forward pump; B: Backward pump.

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

Package: C4