

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

Description

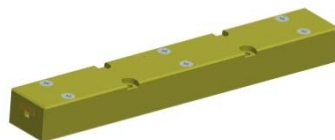
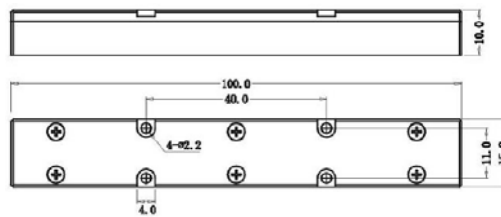
This (2+1)×1 multi-mode fiber combiner is designed for high power laser application. It combines two pump laser and one signal channel into one double cladding output fiber. Fiber type can be customized.

Key Features

- High Signal Transmission Efficiency
- High Pump Efficiency
- Wavelength Insensitive
- High power Handling Capability
- Custom Configurations Available

Mechanical Dimension

C7: 100x15x10



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		200	220	μm	Refer to fiber codes: “140”: 200/220 0.22NA “143”: 220/242 0.22NA
4		Cladding Diameter		220	242	μm	
5		Numerical Aperture		0.22		-	
6	Signal Fiber	x/400 DCF				x=10,20,25	
7	Output Fiber	x/400 DCF					
8	Pump Efficiency	92	95		%		
9	Signal Insertion Loss		0.3	0.45	dB		
10	Power Handling			200	W	Each port	
11	M ²		1.1	1.25	-		
12	Optical Return Loss	40	45		dB		
13	Optical Isolation	23			dB		
14	Fiber Length	0.8			m	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	C7			-		

Ordering Information

MPC-(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: C7