(6+1)×1 Multi-Mode Pump Combiner (MPC)

Description

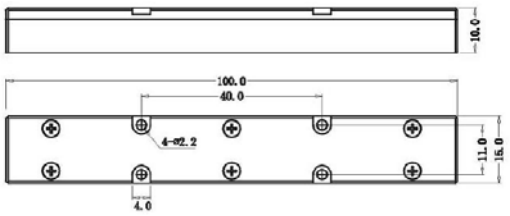
This (6+1)×1 multi-mode fiber combiner is designed for high power 2micron fiber laser application. It combines six pump lasers and one signal channel into one double cladding output fiber. Fiber type can be customized.

Key Features

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

Mechanical Dimension

C7: 100x15x10



Unit: mm

Specifications

Parameters/Test conditions			Min	Typ.	Max	Unit	Note
1	Signal Operating Wavelength		1900		2100	nm	
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	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	95		%	
9	Signal Insertion Loss			0.5	0.7	dB	
10	M^2				1.3	-	
11	Optical Isolation		20			dB	
12	Fiber Length		0.8			m	Each port
13	Power Handling				50	W	Each port
14	Operating Environment Temperature		-5		+70	°C	
15	Operating Humidity		5		95	%RH	Not recommend in high humidity for long time.
16	Storage Temperature		-40		+85	°C	
17	Package		C7			-	

Ordering Information

MPC-(6+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