

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

Description

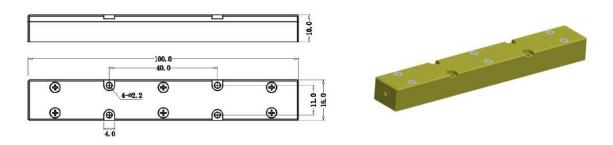
This (2+1)*1 multi-mode fiber combiner is designed for high power laser application. It combines two pump laser and one signal channel into one double cladding output fiber. Fiber type can be customized.

Key Features

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

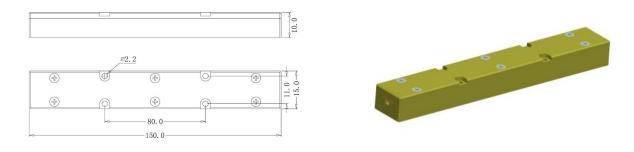
Mechanical Dimension

C7: 100x15x10



Total Pump Power Handling≤400W

(2) H2: 150x15x10



Total Pump Power Handling>400W

Unit: mm



Specifications

Parameters/Test conditions				Min	Тур.	Max	Unit	Note
1	Signal Operating Wavelength			1000	1064	1100	nm	
2	Pump Operating Wavelength			800	915	1000	nm	
3		Core Diameter			200	220	μm	Refer to fiber codes: "174": 200/220 0.22NA DC
	Pump Fiber	Cladding Diameter			220	242	μm	
		Numerical Aperture		0.22 -				"184": 220/242 0.22NA DC
4	Signal Input Fiber			X/250 DCF				X=20,25,30, etc. Refer to fiber code
5	Signal Output Fiber			Y/250 DCF				$Y \geqslant X$ $Y=20,25,30, \dots$ etc. Refer to fiber code
6	Pump Efficiency			92	93		%	Tested by 915nm Pump
7	Signal		Forward		0.3	0.5	dB	Depending on input signal
	Insertion	Loss	Backward		0.2	0.3	dB	
8	M ²				1.1	1.2	-	Input M2<1.05 tested
9	Power Handling				200	300	W	Each port
10	Fiber Length			1.0			m	Each port
11	Operating Environment Temperature			-5		+70	°C	
12	Operating Humidity			5		95	%RH	Not recommend in high humidity for long time.
13	Storage Temperature			-20		+70	°C	
14	Package			C7 or H2			-	Handling power is different with PKG

Note:

- (1) Parameters above are specified at room temperature.
- (2) Bottom side of device must be mounted onto heat sink with good interface contact and active cooling.

Ordering Information

 $MPC-(2+1)*1-F(B)-Pump\ wavelength/Pump\ power-Signal\ wavelength-Pump\ fiber\ codes/Signal\ Input\ fiber\ codes-Package\ type-Fiber\ length$

Fiber: Please refer to Lightcomm fiber codes.

Note:

F=Forward pump, B=Backward pump