

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

Description

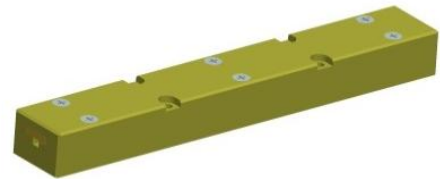
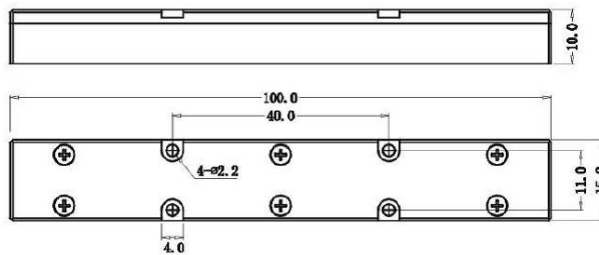
This (2+1)*1 multi-mode fiber combiner is designed for high power laser application. It combines two pump laser and one signal channel into one double cladding output fiber. Fiber type can be customized.

Key Features

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

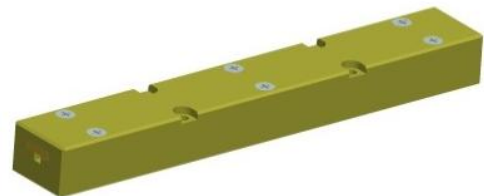
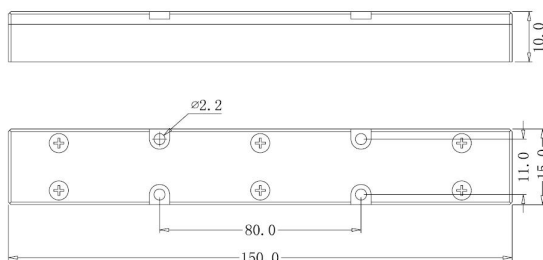
Mechanical Dimension

(1) C7: 100x15x10



Total Pump Power Handling $\leq 800W$

(2) H2: 150x15x10



Total Pump Power Handling $> 800W$

Unit: mm

Specifications

Parameters/Test conditions			Min	Typ.	Max	Unit	Note
1	Signal Operating Wavelength		1000	1064	1100	nm	
2	Pump Operating Wavelength		800	915	1000	nm	
3	Pump Fiber	Core Diameter		200	220	μm	Refer to fiber codes: “174”: 200/220 0.22NA DC “184”: 220/242 0.22NA DC
		Cladding Diameter		220	242	μm	
		Numerical Aperture	0.22			-	
4	Signal Input Fiber		X/400 DCF				X=20,25,30, ... etc. Refer to fiber code
5	Signal Output Fiber		Y/400 DCF				Y≥X Y=20,25,30, ... etc. Refer to fiber code
6	Pump Efficiency		95	96		%	Tested by 915nm Pump
7	Signal Insertion Loss	Forward		0.3	0.5	dB	Depending on input signal
		Backward		0.2	0.3	dB	
8	M ²			1.1	1.2	-	Input M2<1.05 tested
9	Pump Power Handling			300	600	W	Each port
10	Fiber Length		1.0			m	Each port
11	Operating Environment Temperature		-5		+70	°C	
12	Operating Humidity		5		95	%R H	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-Signal Output fiber codes-Package type-Fiber length

Fiber: Please refer to Lightcomm fiber codes.

Note:

F=Forward pump, B=Backward pump