Backwards (6+1)*1 Multi-Mode Pump Combiner (MPC)

Description

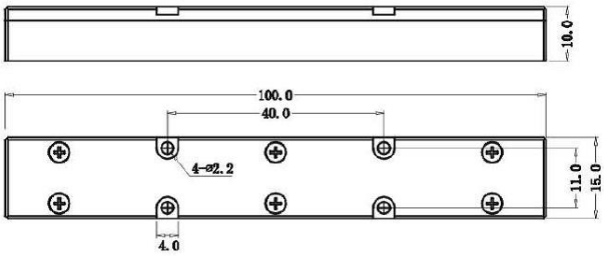
This (6+1)*1 multi-mode fiber combiner is designed for high power fiber laser application. It combines six pump lasers and one signal channel into one double cladding output fiber. Fiber type can be customized.

Key Features

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

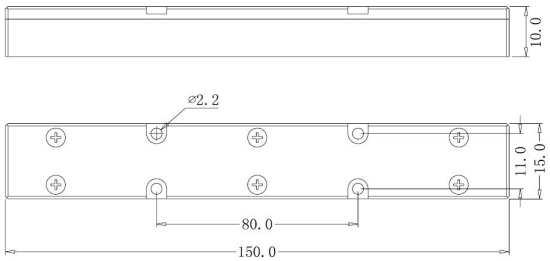
Mechanical Dimension

(1) C7: 100x15x10



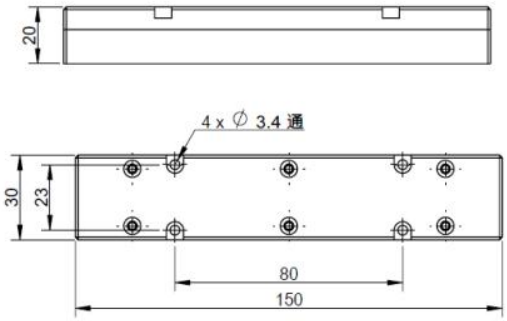
Total Pump Power Handling≤2400W

(2) H2: 150x15x10



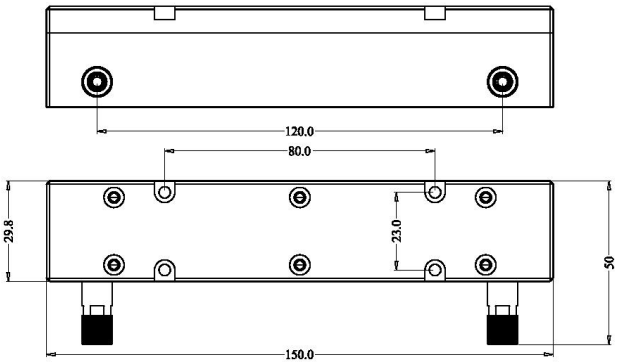
Total Pump Power Handling≤4200W

(3) H10：150x30x20



Total Pump Power Handling≤6000W

(4) H9: 150x30x20



Total Pump Power Handling≤9000W

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	220			μm	MM 220/242 0.22NA DC Refer to fiber code
		Cladding Diameter	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/250 DCF	Y/400 DCF		-	X≤Y Y=20,25,30, … etc. Refer to fiber code
6	Pump Efficiency		97			%	Tested by 915nm Pump
7	Signal Insertion Loss			0.15	0.20	dB	Depending on input signal
8	M^2				1.3	-	Input M2<1.05 tested
9	Power Handling			600	1000	W	Each port
10	Fiber Length		1.0			m	Each port
11	Operating Environment Temperature		-5		+70	ºC	
12	Operating Humidity		5		95	%RH	Not recommend in high humidity for long time.
13	Storage Temperature		-20		+70	ºC	
14	Package		C7 or H2 or H10 or H9			-	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-(6+1)*1-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.