

# Kit PM(6+1)\*1&PMCPS Multi-Mode Pump Combiner (PMMPC&PMCPS)

### **Description**

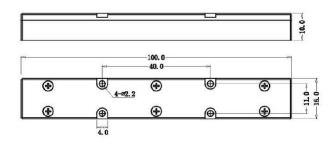
This PM(6+1)\*1 multi-mode fiber combiner is designed for high power fiber laser application. It combines six pump lasers and one signal channel into one double cladding output fiber. And have multimode optical power stripper (Cladding Power Stripper-CPS) at the Signal Input or output fiber. Fiber type can be customized.

### **Key Features**

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

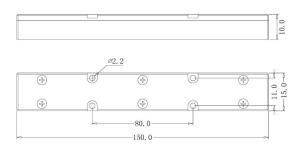
### **Mechanical Dimension**

### (1) C7: 100x15x10 (PM(6+1)\*1)



**Total Pump Power Handling≤2400W** 

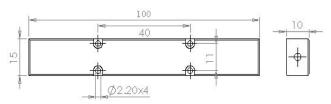
### (2) H2: 150x15x10 (PM(6+1)\*1)



**Total Pump Power Handling≤4200W** 

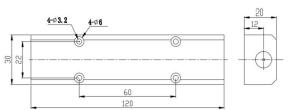
Unit: mm

### (3) C7: 100x15x10mm (PMCPS)



Stripped Power≤100W

### (4) H5: 120x30x20mm (PMCPS)



Stripped Power≤300W

Unit: mm



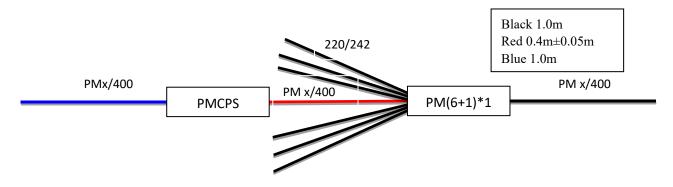
# **Specifications**

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		220	,	μm		
	Pump Fiber	Cladding Diameter	242		μm	MM 220/242 0.22NA DC Refer to fiber code		
		Numerical Aperture	0.22		-	Refer to fiber code		
4	Signal Fiber	Core Diameter	X		μm	PMx/400 DCF Refer to fiber code		
		Cladding Diameter	400		μm			
		Numerical Aperture			-			
	Output Fiber	Core Diameter		X		μm	DM /400 DGE	
5		Cladding Diameter	400 μτ		μm	PMx/400 DCF Refer to fiber code		
		Numerical Aperture		-		-	ACIOI IO HOCI COUC	
6	Pump E	fficiency	97			%	915nm pump test	
7	Signal I	nsertion Loss			0.30	dB	1 W1 14 (1 4 M2 < 1.05)	
8	M2				1.3	-	1mW light source (Input M2<1.05)	
9	ER		20			-	light source PER>25dB	
10	Pump Power Handling				300 or 600	W	Each port (PM(6+1)*1)	
11	Stripping Efficiency		20			dB	PMCPS	
12	Stripping Clading Power				100 or 200	W		
		Pump Fiber	1.0			M	Each port	
	Fiber Length	Signal Input	1.0			M		
13		Between PMMPC and PMCPS	0.35	0.4	0.45	M		
		Signal Output	1.0			M		
14	Operating Environment Temperature		-5		+70	°C		
15	Operating Humidity		5	95		%RH	Not recommend in high humidity for long time.	
16	Storage Temperature		-20		+70	°C		
17	Package		(1) C7 (PMMPC) or (2) H2 (PMMPC) (3) C7 (PMCPS) or (4) H5 (PMCPS)		-	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**

PMMPC-(N+1)\*1-F(B)-Pump wavelength/Pump power-Signal wavelength-Pump fiber codes/Signal Input fiber codes-Signal Output fiber codes-Package type+PMCPS-Signal fiber codes-Stripped power-Package type-Fiber length

Fiber: Please refer to Lightcomm fiber codes.

Note:

F=Forward pump, B=Backward pump.

Document		Version	1.0	Date	
Prepared by	Prepared by			Approval	