N×1 Multimode Pump Combiner

1.0 Description

The N×1 Multimode Pump Combiners (MPC) is designed for combining pump laser into the main fiber. The MPC can be applied into the high power fiber laser and fiber amplifier.

2.0 Optical and Operation Specifications

Item	Specifications	Min.	Typ.	Max.	Unit	Notes
2.01	Pump wavelength	800		1000	nm	
2.02	Polarization	Random				PM Customizable
2.03	Operation regime	CW				
2.04	Fiber length		1.0		m	Default
2.05	Operating temperature range	0		+70	°C	
2.06	Storage temperature	-40		+85	°C	
2.07	Cooling method	Bottom conduction cooling				

3.0 Typical fiber combinations

Item	Confi.	Pump Fiber Type	Output Fiber Type	Pump Efficiency	Power Handling	Package
3.01	7×1	106.5/125, 0.22NA 135/155,0.22NA	220/242, 0.22NA	95%	200W/leg	150*15*12
3.02		200/220, 0.22NA	X/400, 0.46NA	97%	800W/leg	150*15*12
3.03		220/242, 0.22NA		95%	500W/leg	150*15*12

∗ X=20 etc.

∗ The fiber core shape can be round, square or other customized.

* Better performance and other configuration can all be customized.

4.0 Mechanical specifications and drawings

Item	Specifications		Unit	Notes
4.01	Module's Dimensions-A	150*15*12	mm	Bottom conduction cooling

5.0 Ordering information

CNMPC-①-②-③-④-⑤/⑤-⑥

①：**Port combination**

7 – 7×1

②：**Pump fiber type** **S**-SCF,**D**-DCF

M02 – 106.5/125, 0.22NA
M03 – 135/155, 0.22NA
M04 - 200/220 MMF, 0.22NA
M05 - 220/242 MMF, 0.22NA
ect.

③：**Output fiber type**

D12 - 20/400 DCF, 0.06NA
M05 – 220/242 MMF, 0.22NA
ect.

④：**Pump power per port**

100 – 100W
200 – 200W
250 – 250W
ect.

⑤/⑤：**Pump/Output fiber length**

1.0 – 1.0m Default
1.5 – 1.5m
2.0 – 2.0m
ect.

⑥：**Package type**

A1 = Aluminum package 150*15*12mm
S – Specify

For example：**CNMPC-7-SM04-M05-200-1.0/1.0-A1**