

## (1+1) × 1/(2+1) × 1 Fiber Pump Signal Combiner

### ☆ Description

(1+1)×1/(2+1)×1 fiber pump signal combiner features high pump efficiency, low insert loss, cost-effective, stable and reliable. This combiner can be integrated into medium and low power fiber laser, fiber amplifier, and R&D test equipment.



### ☆ Specifications

Port type	(1+1) × 1 / (2+1) × 1		
Pump wavelength	800~1000nm		
Signal wavelength	1030~1080nm / 1450~1600nm		
Signal fiber(input)	X/125	X/250	(X/125) / (20/400)
Pump fiber(input)	105/125 0.15NA / 0.22NA		X/125 0.15NA / 0.22NA
			200/220 0.22NA
Output fiber	Y/125	Y/250	20/400
Pump efficiency	> 90%	> 93%	> 95%
Signal insert loss	< 0.7dB	< 0.5dB	< 0.5dB
Max. power of single port	100W		300W
Return loss	> 45dB		
Laser beam / M2	Customized		
Package size	Φ4×60mm, 70×12×8mm, 100×15×10mm		
Operating temperature	0℃~+75℃		
Storage temperature	-40℃~+85℃		

Note: X=6,8,10,20,25,30 etc.

Y=6,8,10,20,25,30 etc.

### ☆ Ordering Information

Part Number	Note	Options
XXX-XXX	Part type	XHP-CMB
X	Port type	<b>1</b> = (1+1) × 1 <b>2</b> = (2+1) × 1
XXX/XXX	Operating wavelength	Pump wavelength: <b>PW1</b> = 915nm, <b>PW2</b> = 975nm Signal wavelength: <b>SW1</b> = 1064nm, <b>SW2</b> = 1550nm, <b>SW3</b> = 2000nm
X	Pump mode	<b>F</b> = Forward pump <b>B</b> = Backward pump
XXX	Pump fiber	<b>PF1</b> = 105/125 NA=0.22 <b>PF2</b> = 105/125 NA=0.15 <b>PF3</b> = 200/220 NA=0.22

**Ordering information**

XXX	Signal fiber(input)	<b>SF1</b> = DCF6/125 NA=0.14/0.46 <b>SF2</b> = DCF8/125 NA=0.14/0.46 <b>SF3</b> = DCF10/125 NA=0.08/0.46 <b>SF4</b> = DCF20/125 NA=0.08/0.46 <b>SF5</b> = DCF20/250 NA=0.08/0.46 <b>SF6</b> = DCF30/250 NA=0.06/0.46 <b>SF7</b> = DCF25/250 NA=0.06/0.46
XXX	Output fiber	<b>OF1</b> = DCF6/125 NA=0.14/0.40 <b>OF2</b> = DCF8/125 NA=0.14/0.46 <b>OF3</b> = DCF10/125 NA=0.08/0.46 <b>OF4</b> = DCF20/125 NA=0.08/0.46 <b>OF5</b> = DCF20/250 NA=0.08/0.46 <b>OF6</b> = DCF30/250 NA=0.06/0.46 <b>OF7</b> = DCF25/250 NA=0.06/0.46 <b>OF8</b> = 20/400 NA=0.06/0.46
XXX	Fiber length(single side)	<b>L08</b> = 0.8m <b>L10</b> = 1.0m
XXX	Package size	<b>PS1</b> = Aluminum box(70×12×8mm) <b>PS2</b> = Aluminum box(100×15×10mm) <b>PS3</b> = Steel tube(Φ4×60mm)

**Example:** XHP-CMB-2-PW1/SW1-F-PF1-SF1-OF1-L10-PS2