

The High Power Signal and Pump Combiner is designed for combining pump laser and signal laser into the main double cladding fiber. The SPC can be applied in forward, backward or double-end pumping schemes.

Item	Specifications	Min.	Typ.	Max.	Unit	Notes
2.01	Signal wavelength	1000	1060	1100	nm	
2.02	Pump wavelength	800	915	1000	nm	
2.03	Polarization	Random				PM Customizable
2.04	Operation regime	CW				
2.05	Fiber length		1.5		m	Default
2.06	Operating temperature range	0		+70	°C	
2.07	Storage temperature	-40		+85	°C	
2.08	Cooling Method	Bottom conduction cooling				

Item	Confi.	Pump Fiber	Signal Fiber	Output Fiber	Power Handling	Pump Efficiency	Signal Power	Signal IL	Note
3.01	(6+1) × 1	200/220 220/242	20/400DCF	Y/250DCF Y/400DCF	800W/leg	97%	3kW	0.2dB	Y=20, 25, 30, 50

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

Technical drawing of the module showing dimensions in millimeters (mm). The drawing includes a top view, a side view, and a cross-sectional view.

- Top View:** Shows a rectangular module with a length of 150 mm and a width of 15 mm. There are four mounting holes, each with a diameter of 2.2 mm, arranged in a 2x2 grid. The distance between the centers of the holes is 80 mm. The distance from the left edge to the first hole is 11 mm. The distance from the right edge to the last hole is 11 mm.
- Side View:** Shows the module's profile with a height of 12 mm.
- Cross-sectional View:** Shows the module's internal structure with a width of 5.5 mm.

HSP-①-②-③-④-⑤-⑥/⑦-⑧/⑨-⑩		
①: Port combination	②: Signal propagation direction	③: Pump fiber type S-Single clad,D-DCF
61 - (6+1) ×1	Z - Forward F – Backward	SM04 - 200/220 MMF, 0.22NA SM05 - 220/242 MMF, 0.22NA DM04 - 200/220 MMF, 0.22NA DM05 - 220/242 MMF, 0.22NA ect.
④: Signal input fiber type	⑤: Signal output fiber type	⑥: Pump power per port
D12 - 20/400 DCF, 0.06NA D13 - 25/400 DCF, 0.06NA D14 - 30/400 DCF, 0.06NA ect.	D06 – 20/250 DCF, 0.06NA D07 – 25/250 DCF, 0.06NA D08 – 30/250 DCF, 0.06NA ect.	200 - 200W 400 - 400W 600 - 600W ect.
⑦: Handling signal power	⑧/⑨: Input/Output fiber length	⑩: Package type
2KW - 2000W 3KW - 3000W 5KW - 5000W ect.	1.5-1.5m Default 2.0-2.0m ect.	A1 = Aluminum package 150*15*12mm

For example: SPC-61-F-SM05-D12-D06-400/2KW-2.0/2.0-A1