

High Power Pump and Signal Combiner

For High Power Fiber Lasers, Diode Lasers, DPSS lasers and Amplifiers

WSP's high power pump and signal combiners feature excellent performance. These devices can be used to combine the power from one to several pump laser diodes into a double clad fiber (DCF) that has a signal core.

WSP's high power pump and signal combiners offers very efficient pump power with the best signal quality transmission. They are designed to meet a wide range of power handling configurations and a large selection of input/output fiber types.

These combiners are designed to address industrial and research applications.



Features:

- High Power Transfer Efficiency
- Large selection of input and output fiber
- Polarization maintain (PM) fiber and non-PM fiber
- Wavelength Insensitive
- Custom Configurations Available

Applications:

- High power fiber lasers
- Seed and power fiber amplifiers
- Industrial & Research

Technical Data

Parameter	Unit	Nominal	Min	Max
Signal Operating Wavelength	nm	1030, 1064	1000	1100
Pump Operating Wavelength	nm		800	1000
Signal Fiber		PM98, HI1060, 5/130, 10/125, 15/130, 20/130, or 25/250, single-clad and double-clad, PM or Non-PM, or specify		
Pump fiber	um	105um/125um/0.22 or specify		
Output Fiber		5/130, 10/125, 15/130, 20/130, 25/250, 30/250 double-clad, PM or Non-PM, or customer specify		
Pump Efficiency	%	95	94	
Signal IL	dB	0.5		
Pump Power Handling (per port)		10, 20, 30, 50		
PER	dB	22	20	
Isolation	dB		25	
M2				1.3
Retrun Loss	dB		45	
Dimension	mm	50x5x5 (LxWxH) (C1 package), or 70x12x8 (A1 package)		
Operating Temperature			-5	70