



# (6+1)x1 High Power Backward Pump & Signal Combiner (HPPC Series)

REV11

## Description

The High Power (6+1)x1 Pump & Signal Combiner enables highly efficient combining of the powers from up to 6 multimode pump diodes and a signal beam from the signal fiber into a double cladding output fiber. Available for different fiber types.

## Key Features

- High Power Handling
- High Coupling Efficiency
- Proprietary Fiber Tapering Technique

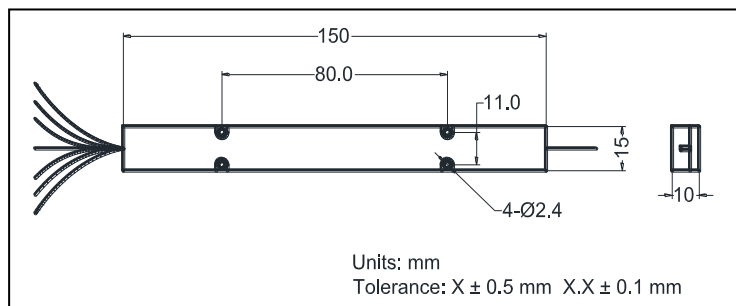
## Applications

- High Power Fiber Laser

## Specifications

Parameter	Unit	Value
Product Type		Backward pump ( 6 + 1 ) x1
Pump Wavelength	nm	900 - 1000
Signal Wavelength	nm	1060 - 1080
Fiber Type For Input (Pump Channel)		200/220, NA=0.22/0.46 or 220/242, NA=0.22/0.46
Fiber Type For Input (Signal Channel)		20/400, NA=0.065/0.46
Fiber Type For Output (Signal Channel)		20/400, NA=0.065/0.46 or 25/400, NA=0.065/0.46
Max. Signal Channel Insertion Loss	dB	0.2
Typ. Pump Efficiency	%	98
Min. Pump Efficiency	%	97
Input Pump Power	W	500 x 6
Input Signal Power	W	3000
Max. Backward Pump Power Handling	W	300
Package Dimensions	mm	150(L) x 15 (W) x 10 (H)
Operating Temperature	°C	0 to +50
Storage Temperature	°C	-40 to +85

## Package Dimensions



## Ordering Information

**HPBPC-(6+1)x1-B-①①①①-②②②-③③③-④④-⑤⑤/⑤⑤⑤-⑥**

①①①①: Signal Wavelength

1060 - 1060 nm

1080 - 1080 nm

SSSS - Specify

②②②: Pump Wavelength

915 - 915 nm

976 - 976 nm

SSS - Specify

③③③: Fiber Type For Pump Input

200 - 200/220, NA=0.22/0.46

220 - 220/242, NA=0.22/0.46

SSS - Specify

④④: Fiber Type For Signal Input

20 - 20/400, NA=0.065/0.46

SS - Specify

⑤⑤/⑤⑤⑤: Fiber Type For Signal Output

20 - 20/400, NA=0.065/0.46

25 - 25/400, NA=0.065/0.46

SS/SSS - Specify

⑥: Fiber Length

Q - 0.75 m

S - Specify

