



High Power (6+1)×1 Polarization Maintaining Backward Pump & Signal Combiner (HPPMBPC Series)

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Description

The High Power (6+1)×1 Polarization Maintaining Backward Pump&Signal Combiner enables highly efficient combining of the powers from up to 6 multimode pump diodes into a double cladding output fiber. Meanwhile, it can transmit several kW signal power with extremely low insertion loss from the opposite direction of the pump light. 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 PM (6+1)×1
Pump Wavelength	nm	976
Signal Wavelength	nm	1080
Fiber Type for Pump Input	-	200/220DCF 0.22NA
Fiber Type for Signal Input	-	20/400DCF 0.065/0.46NA
Fiber Type for Signal Output	-	20/400DCF 0.065/0.46NA
Max. Signal Channel Insertion Loss ¹	dB	0.3
Min. Extinction Ratio ²	dB	18
Min. Pump Efficiency ³	%	98
Max. Input Signal Power ⁴	W	2000
Max. Input Pump Power (Single) ⁵	W	600
Max. Input Pump Power (Total) ⁵	W	3600
Max. Backward Pump Power Handling ⁶	W	300
Package Dimensions	mm	150(L) × 15 (W) × 11 (H)
Operating Temperature	°C	0 to + 50
Storage Temperature	°C	- 40 to + 85

¹Tested with mW class 1064nm light source

²Tested with mW class PM 1064nm light source

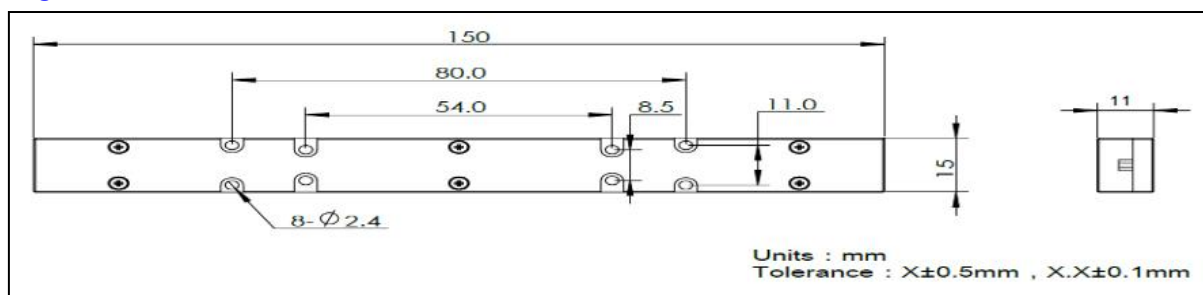
³Tested with 10w Pump.(95% Power NA ≈0.18)

⁴Without testing.Design guarantee

⁵Testing by 3600W 976nm Pump.(95% Power NA ≈0.18)

⁶Testing by 300W Cladding Power Pump.

Package Dimensions



Ordering Information

HPPMBPC-T-(6+1)×1-①①①①-②②②-③③③-④④-⑤⑤-⑥

①①①①: Signal Wavelength

1080 - 1080 nm

SSSS - Specify

②②②: Pump Wavelength

976 - 976nm

SSS - Specify

③③③: Fiber Type for Pump Input

200- 200/220DCF 0.22NA

SSS - Specify

④④: Fiber Type for Signal Input

20 - 20/400DCF 0.065/0.46NA

SS - Specify

⑤⑤: Fiber Type for Signal Output

20- 20/400DCF 0.065/0.46NA

SS - Specify

⑥: Fiber Length

1.5 - 1.5 m

S - Specify