



High Power (6+1)×1 Pump & Signal Combiner (HPPC Series)

Rev 11

Description

The High Power Pump & Signal Combiner enables highly efficient combining of the powers from up to 6 multimode pump diodes and a signal laser into a double cladding output fiber. The pump and signal combiner can handle more than 1 kW combined power. Available for different fiber types.

Key Features

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

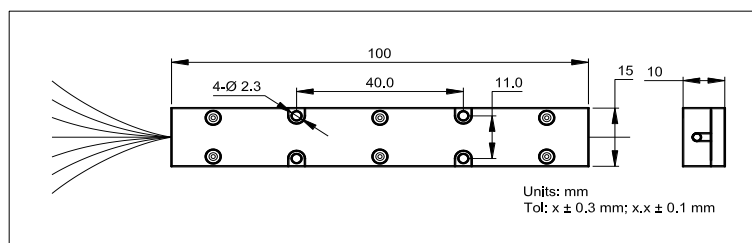
Applications

- kW Class Fiber Laser
- kW Class Fiber Amplifier

Specifications

Parameter	Unit	Value
Product Type	-	(6+1)×1
Pump Wavelength Range	nm	915 - 980
Signal Wavelength Range	nm	1030 - 1080
Fiber Type for Input (Pump Channel)	-	Nufern 220/242, 0.22 NA
Fiber Type for Input (Signal Channel)	-	Nufern LMA-GDF-20/400-M, 0.06/0.46 NA
Fiber Type for Output	-	Nufern LMA-GDF-20/400-M, 0.06/0.46 NA
Max. Input Pump Power	W	6 × 200
Max. Signal Channel Insertion Loss	dB	0.5
Typ. Pump Efficiency	%	99
Min. Pump Efficiency	%	97
Package Dimensions	mm	100 (L) × 15 (W) × 10 (H)
Operating Temperature (Active Cooling Required)	°C	- 5 to + 65
Storage Temperature	°C	- 40 to + 85

Package Dimensions



Ordering Information

HPPC-(6+1)×1-①①-②②②-③③-④④-⑤⑤-⑥

①①: Signal Wavelength

06 - 1060 nm

SS - Specify

②②②: Pump Wavelength

915 - 915 nm

SSS - Specify

③③: Fiber Type for Pump Input

22 - 220/242, 0.22 NA

20 - 200/220, 0.22 NA

SS - Specify

④④: Fiber Type for Signal Input

20 - Nufern LMA-GDF-20/400-M

SS - Specify

⑤⑤: Fiber Type for Output

20 - Nufern LMA-GDF-20/400-M

SS - Specify

⑥: Fiber Length

Q - 0.75 m

S - Specify