Advanced Fiber Resources (HK), Ltd.

(18+1)×1 High Power Pump & Signal Combiner (HPPC Series)

Rev 11A

Description

The (18+1)×1 High Power Pump & Signal Combiner enables highly efficient combining of the powers from up to 18 multimode pump diodes and a signal laser into a double cladding output fiber.The device 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

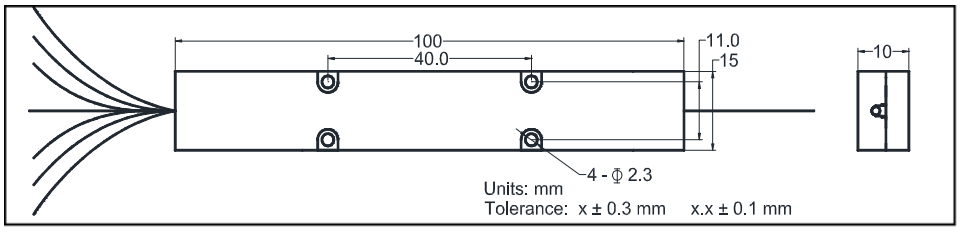
Applications

- kW Class Fiber Laser
- kW Class Fiber Amplifier

Specifications

Parameter	Unit	Value
Product Type	-	(18+1) × 1
Pump Wavelength Range	nm	915 - 980
Signal Wavelength Range	nm	650
Fiber Type for Input (Pump Channel)	-	105/125 (0.15 or 0.22 NA)
Fiber Type for Input (Signal Channel)	-	20/125, NA = 0.08/0.46
Fiber Type for Output	-	Nufern LMA-GDF-20/400-M, 0.06/0.46 NA
Max. Input Pump Power	W	18 × 60
Max. Signal Channel Insertion Loss	dB	2.0
Typ. Pump Efficiency	%	99
Min. Pump Efficiency	%	97
Package Dimensions	mm	100 (L) × 15 (W) × 10 (H)
Operating Temperature (Active Cooling Required)	℃	- 5 to + 65
Storage Temperature	℃	- 40 to + 85

Package Dimensions



Ordering Information

HPPC-(18+1)×1-①①-②②-③③-④

①①: Fiber Type for Pump Input
15- 105/125 (0.15 NA)
22- 105/125 (0.22 NA)
SS - Specify

②②: Fiber Type for Signal Input
20 - 20/125 SC, NA = 0.08/0.46
SS - Specify
SS - Specify

③③: Fiber Type for Output
20 - Nufern LMA-GDF-20/400-M
30 - Nufern LMA-GDF-30/250-M
SS - Specify

④: Fiber Length
Q - 0.75 m
S - Specify

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