

Multimode Pump & Signal Combiner



PN: MMPC-(18+1) × 1-06-976-22-06-SS

MMPC Series : (18+1) × 1 Multimode Pump & Signal Combiner.

Features:

- High Power Coupling Efficiency
- Preservation of Mode Content
- Wavelength Insensitive
- Custom Configurations Available

Applications:

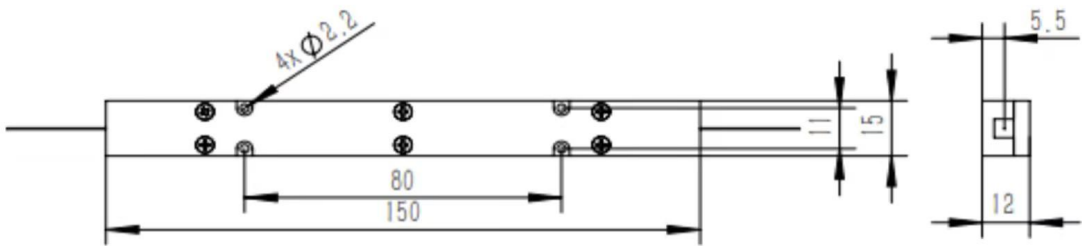
- Fiber Laser
- Fiber Laser Seed Amplifiers
- Fiber Laser Power Amplifiers
- Industrial, Telecom & Research

Performance Specifications

Parameter	Unit	Value
Product Type		(18+1) x 1
Signal Wavelength Range	nm	1040-1090
Pump Wavelength Range	nm	900-980
Number of Multimode Input ports		18
Number of Signal Input ports		1
Number of Output ports		1
Fiber Type for Input(Pump Channel)	μm	Nufern 105/125(0.22 NA)
Fiber Type for Input(Signal Channel)	μm	H11060 or 20/130 DC, NA=0.08/0.46
Fiber Type for Output	μm	48/400um, NA=0.08/0.46
Maximum power handling per pump input port	W	60
Total Power	W	18x60W
Max. Pump Insertion Loss	dB	<1
Max. Signal Insertion Loss	dB	<1
Optical Return Loss	dB	>35
Fiber Pigtail Length Input/Output	m	>1.5
Package Dimensions	mm	150(L) x 15(W) x 12(H) Pump combiner should have proper heat removal packaging
Application	-	Yb-doped fiber laser
Operating Temperature	℃	0 to +60
Storage Temperature	℃	-40 to +85

*Mode numbers summation of all input fibers should be less than that of output fiber.

Diagram



Revision History

Revision	Notes	Authors	Checked	Approval	Date
Rev A0	New release	Virgil			2024-08-14

Hirundo Optics Inc

Factory: 2nd Floor, Building 6, #16 Xinfu Road, Southern Cable Industrial Park, Rongli Ronggui Street, Shunde District, Foshan city, Guangdong 528305 China
Tel: 0757-26619220 Email: info@hirundo-link.com Website: <https://www.hirundo-link.com/>