



3 x 1 Pump Combiner

DK Photonics' 3X1 Multimode Pump Combiner is designed for high power applications. It features exceptional optical characteristics. These devices can be used to combine the power from several multimode laser diodes, delivering the combined power for applications in industrial, military, medical and telecommunications markets. It has a heat sink package and a hole for temperature monitoring.

DK Photonics' Multimode Combiners offer efficient power transfer for high power applications like direct diode materials processing and pump cascading with a maximum conservation of brightness. The Multimode Combiners can be designed to meet a wide range of power handling configurations, number of input fibers and adaptation to different fiber types.

Features

- ◆ High Power Transfer Efficiency
- ◆ Low signal insertion loss
- ◆ Custom Configurations Available
- ◆ Wavelength Insensitive

Applications

- ◆ Fiber Laser Combination



Performance Specifications

Parameters	Value			
Product Code	MPC0301001	MPC0301002	MPC0301003	MPC0301004
Pump Operating Wavelengths	800-1000nm	800-1000nm	800-1000nm	800-1000nm
Number of Multimode Inputs	3	3	3	3
Number of Output Ports	1	1	1	1
Pump Input Fiber				
Core/clad diameter	105/125um	105/125um	105/125um	105/125um
NA	0.12	0.15	0.22	0.22
Output Fiber				
Core/clad diameter	105/125um	200/220um	125um	200/220um
NA	0.22	0.22	0.46	0.22
Insertion Loss	<0.5dB	<0.5dB	<0.5dB	<0.5dB
Total Power	75W	75W	75W	75W
Power per Multimode Input	25W	25W	25W	25W
Optical Return Loss - Pumps	45dB	45dB	45dB	45dB
Multimode Power Transfer	>85%	>93%	>93%	>90%
Mechanical Specifications				
Dimensions	T1,T2,T3			
Fiber Pigtail Length Input/Output (1)	A: 1000mm; B: 2000mm; C: 3000mm			

* Pricing is dependent on fiber pigtail length.

**Specifications may be change without notice.

Order information:

MPC0301001A/B/C

.....

Package Information

Package Type	T1	T2	T3	T4	T5
Dimensions (Φ×L) (mm)	50×5×5	Φ4.0×60	70×12×8-3.5	70×12×8-5	105×11×7