



4 x 1 Pump Combiner

DK Photonics' 4X1 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.

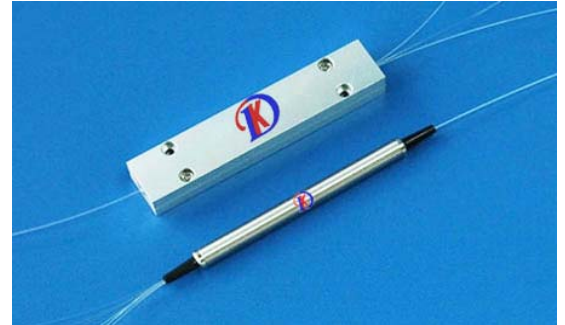
DK Photonics' Multimode Combiners offer efficient power transfer for high power applications like direct diode materials processing and pump cascading with a maximum conservation of brightness. The Multimode Combiners can be designed to meet a wide range of power handling configurations, number of input 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 | | | | | |
|------------------------------------|---------------------------------|--------------|--------------|------------|------------|------------|
| | MPC0401001 | MPC0401002 | MPC0401003 | MPC0401004 | MPC0401005 | MPC0401006 |
| Product Code | MPC0401001 | MPC0401002 | MPC0401003 | MPC0401004 | MPC0401005 | MPC0401006 |
| Pump Operating Wavelengths | 1550nm | | | 800-1000nm | | |
| Number of Multimode Inputs | 2 | | | 2 | | |
| Number of Output Ports | 1 | | | 1 | | |
| Pump Input Fiber | | | | | | |
| Core/clad diameter | SMF-28e | SMF-28e | SMF-28e | 105/125um | 105/125um | 105/125um |
| NA | / | / | / | 0.15 | 0.15 | 0.22 |
| Output Fiber | | | | | | |
| Core/clad diameter | 105/125um | 50/125um MMF | 50/125um MMF | 125um | 200/220um | 125um |
| NA | 0.15 | / | / | 0.46 | 0.22 | 0.46 |
| Insertion Loss | <0.3dB | <0.3dB | <0.3dB | <0.3dB | <0.3dB | <0.3dB |
| Total Power | 40W | 40W | 40W | 100W | 100W | 100W |
| Power per Multimode Input | 10W | 10W | 10W | 25W | 25W | 25W |
| Optical Return Loss - Pumps | 45dB | 45dB | 45dB | 45dB | 45dB | 45dB |
| Multimode Power Transfer | >90% | >90% | >90% | >90% | >90% | >90% |
| Mechanical Specifications | | | | | | |
| Dimensions | T1,T2,T3 | | | | | |
| Fiber Pigtail Length Input/ Output | A: 1000mm; B: 2000mm; C: 3000mm | | | | | |

* Pricing is dependent on fiber pigtail length.
**Specifications may be change without notice.

Order information:

MPC0401001A/B/C
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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 |