

(2 + 1) x 1 Pump and Signal Combiner

DK Photonics' (2+1)×1 Multimode Pump Combiner is designed for high power applications. It features exceptional optical characteristics. These devices can combine 2 pump lasers and 1 signal channel into one fiber and create a high power pump laser source, 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 Seed Amplifiers
- ◆ CATV Amplifiers



Performance Specifications

Parameters	Value	
Product Code	PSC02101001	PSC02101002
Signal Operating Wavelengths	1530-1575nm	1040-1080nm
Pump Operating Wavelengths	800-1000nm	800-1000nm
Number of Multimode Inputs	2	2
Number of Signal Ports	1	1
Number of DCF Ports	1	1
Pump Input Fiber		
Core/clad diameter	105/125um	105/125um
NA	0.22	0.22
Signal Input Fiber		
Core/clad diameter	8/125um	10/125um
NA	0.14/0.46	0.08/0.46
Output Fiber		
Core/clad diameter	8/125um	10/125um
NA	0.14/0.46	0.08/0.46
Maximum Pump Insertion Loss	<0.5dB	<0.5dB
Maximum Signal Insertion Loss	<0.35dB	<0.35dB
Total Power	14W	14W
Power per Multimode Input	7W	7W
Optical Return Loss - Pumps	35dB	35dB
Mechanical Specifications		
Dimensions	Φ4.0×60 (mm)	
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:

PSC02101001A/B/C

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