

### 3x1, 4x1 and 7x1 MULTIMODE POWER COMBINERS

AOFR's fused biconic taper coupler technology and advanced production platform has been extended to laser power combiners. AOFR's power combiners enable high efficiency coupling for multiple high power lasers into a single multimode fiber. All AOFR combiners conform to stringent environmental and mechanical standards to give high reliability and long lifetime for all field applications.

#### FEATURES

- All fiber construction with high efficiency
- High power handling
- Broadband operation
- Different fiber sizes and fiber NAs available
- Stable environmental performance
- Metal packaging to maximize heat dissipation

#### APPLICATIONS

- Fiber lasers for a range of applications including
  - Industrial
  - Military
  - Medical
- Fiber Amplifiers
- High power fiber delivery



#### SPECIFICATIONS

Configuration	3x1	4x1	7x1
Operating Wavelength	900 -1000nm		
Storage Temperature	-40°C to 85°C		
Operating Temperature	-5°C to 75°C		
Minimum per port efficiency	>90%		
Power handling	10W per input (with appropriate heat sinking)		
Return Loss/Directivity	>40dB		
Package dimensions	5x5x50mm		

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ORDERING INFORMATION

3x1 Catalog Numbers

<b>LC-3-01-00-00-H-P</b>	105/125µm, 0.22NA Input fiber. 125µm, 0.45NA Output fiber
<b>LC-3-02-00-00-H-P</b>	105/125µm, 0.15NA Input fiber. 125µm, 0.45NA Output fiber
<b>LC-3-02-00-09-H-P</b>	105/125µm, 0.15NA Input fiber. 200/220µm, 0.22NA Output fiber

4x1 Catalog Numbers

<b>LC-4-01-00-00-H-P</b>	105/125µm, 0.22NA Input fiber. 125µm, 0.45NA Output fiber
<b>LC-4-02-00-00-H-P</b>	105/125µm, 0.15NA Input fiber. 125µm, 0.45NA Output fiber
<b>LC-4-02-00-09-H-P</b>	105/125µm, 0.15NA Input fiber. 200/220µm, 0.22NA Output fiber

7x1 Catalog Numbers

<b>LC-7-01-00-00-H-P</b>	105/125µm, 0.22NA Input fiber. 125µm, 0.45NA Output fiber
<b>LC-7-02-00-00-H-P</b>	105/125µm, 0.15NA Input fiber. 125µm, 0.45NA Output fiber

The above Combiners have 5x5x50mm metal packaging with 1meter pigtails as standard.

Non-standard fiber types, packaging and pigtail lengths are available on request.

PACKAGE OUTLINES

