

### 2x1, 3x1, 4x1, 7x1 and 19x1 MULTIMODE HIGH 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 Reliability
- Up to 25W per port power handling
- Different fiber sizes and fiber numerical apertures available
- Stable environmental performance
- Metal packaging to maximize heat dissipation
- Suitable for air or water cooled applications

#### APPLICATIONS

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

#### SPECIFICATIONS

Configuration	2x1	3x1	4x1	7x1	19x1
Operating Wavelength	790 -1000nm				
Storage Temperature	-40°C to 85°C				
Operating Temperature	-5°C to 75°C				
Minimum per port efficiency	>90%				
Return loss/Directivity	>40dB				
Power Handling per input port*	25W			10W	
Package dimensions (HxWxL)	5x5x50mm			8x8x65mm	

\* with appropriate heat sinking

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### ORDERING INFORMATION

Catalog Number	Input fiber core dia.(NA)/clad dia.	Output fiber core dia.(NA)/clad dia.
<b>2x1</b>		
<b>LC2020004UP</b>	105(0.15)/125µm	105(0.22)/125µm
<b>LC2010000UP</b>	105(0.22)/125µm	125(0.45)/250µm
<b>LC2020000UP</b>	105(0.15)/125µm	125(0.45)/250µm
<b>LC2010009UP</b>	105(0.22)/125µm	200(0.22)/220µm
<b>LC2020009UP</b>	105(0.15)/125µm	200(0.22)/220µm
<b>3x1</b>		
<b>LC3010000UP</b>	105(0.22)/125µm	125(0.45)/250µm
<b>LC3020000UP</b>	105(0.15)/125µm	125(0.45)/250µm
<b>LC3010009UP</b>	105(0.22)/125µm	200(0.22)/220µm
<b>4x1</b>		
<b>LC4010000UP</b>	105(0.22)/125µm	125(0.45)/250µm
<b>LC4020000UP</b>	105(0.15)/125µm	125(0.45)/250µm
<b>LC4020009UP</b>	105(0.15)/125µm	200(0.22)/220µm
<b>7x1</b>		
<b>LC7010000UP</b>	105(0.22)/125µm	125(0.45)/250µm
<b>LC7020000UP</b>	105(0.15)/125µm	125(0.45)/250µm
<b>LC7020009UP</b>	105(0.15)/125µm	200(0.22)/220µm
<b>19x1</b>		
<b>LC19020010BP</b>	105(0.15)/125µm.	400(0.22)/440µm

The above combiners have aluminum packaging with 1 meter pigtails as standard.

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

### PACKAGE OUTLINES

