

2x1, 3x1, 4x1, 7x1 and 19x1 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	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%				
Power Handling	10W per input (with appropriate heat sinking)				
Return loss/Directivity	>40dB				
Package dimensions (HxWxL)	5x5x50mm				8x8x65mm

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ORDERING INFORMATION

	Catalog Number	Input fiber core dia.(NA)/clad dia.	Output fiber core dia.(NA)/clad dia.
2x1	LC2020004HP	105(0.15)/125μm	105(0.22)/125μm
	LC2010000HP	105(0.22)/125μm	125(0.45)/250μm
	LC2020000HP	105(0.15)/125μm	125(0.45)/250μm
	LC2010009HP	105(0.22)/125μm	200(0.22)/220μm
	LC2020009HP	105(0.15)/125μm	200(0.22)/220μm
3x1	LC3010000HP	105(0.22)/125μm	125(0.45)/250μm
	LC3020000HP	105(0.15)/125μm	125(0.45)/250μm
	LC3010009HP	105(0.22)/125μm	200(0.22)/220μm
4x1	LC4010000HP	105(0.22)/125μm	125(0.45)/250μm
	LC4020000HP	105(0.15)/125μm	125(0.45)/250μm
	LC4020009HP	105(0.15)/125μm	200(0.22)/220μm
7x1	LC7010000HP	105(0.22)/125μm	125(0.45)/250μm
	LC7020000HP	105(0.15)/125μm	125(0.45)/250μm
	LC7020009HP	105(0.15)/125μm	200(0.22)/220μm
19x1	LC19020010CP	105(0.15)/125μm.	400(0.22)/440μm

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

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

PACKAGE OUTLINES

