

### 1+1x1 SIGNAL PATH POWER COMBINERS

AOFR's fused biconic taper coupler technology and advanced production platform has been extended to laser power combiners. AOFR's signal path power combiners enable high efficiency coupling for high power lasers into a single double-clad output fiber with a low loss signal path.

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 NA's available
- Stable environmental performance
- Metal packaging to maximize heat dissipation

#### APPLICATIONS

- Fiber lasers for a range of applications including
  - Industrial
  - Military
  - Medical
- Fiber Amplifiers



#### SPECIFICATIONS

Pump	Fiber	105/125 $\mu$ m, 0.22NA or 0.15NA
	Operating Wavelength	790 -1000nm
	Efficiency	>80%
	Power	10W
Signal	Fiber	HI1060, SMF28e, LMA, PLMA
	Operating Wavelength	1064nm or 1550nm
	Efficiency	>90%
	PER	>20dB
Output	Fiber	125 $\mu$ m, 0.45NA DC with matched signal path

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### 1+1x1 ORDERING INFORMATION

Catalog Number	Input fiber core dia.(NA)/clad dia.	Signal fiber	Output fiber core dia.(NA)/clad dia.(NA)/coat dia.
1064nm Options:			
LC2010105HP	105(0.22)/125µm	HI1060	5(0.14)/125(0.45)/250µm
LC2020105HP	105(0.15)/125µm	HI1060	5(0.14)/125(0.45)/250µm
LC2010415HP	105(0.22)/125µm	PMF1060	5(0.14)/130(0.45)/250µm
LC2020415HP	105(0.15)/125µm	PMF1060	5(0.14)/130(0.45)/250µm
LC2011306HP	105(0.22)/125µm	LMA 10(0.075)/125µm	10(0.075)/125(0.45)/250µm
LC2021306HP	105(0.15)/125µm	LMA 10(0.075)/125µm	10(0.075)/125(0.45)/250µm
LC2010520HP	105(0.22)/125µm	PLMA 10(0.085)/125µm	10(0.085)/125(0.45)/250µm
LC2020520HP	105(0.15)/125µm	PLMA 10(0.085)/125µm	10(0.085)/125(0.45)/250µm
LC2011125HP	105(0.22)/125µm	LMA 15(0.08)/130µm	15(0.08)/130(0.45)/250µm
LC2021125HP	105(0.15)/125µm	LMA 15(0.08)/130µm	15(0.08)/130(0.45)/250µm
LC2010929HP	105(0.22)/125µm	PLMA 15(0.08)/130µm	15(0.08)/130(0.45)/250µm
LC2020929HP	105(0.15)/125µm	PLMA 15(0.08)/130µm	15(0.08)/130(0.45)/250µm
1550nm Options:			
LC2010202HP	105(0.22)/125µm	SMF28e	7(0.12)/125(0.45)/250µm
LC2020202HP	105(0.15)/125µm	SMF28e	7(0.12)/125(0.45)/250µm
LC2011024HP	105(0.22)/125µm	PMF1550	7(0.12)/130(0.45)/250µm
LC2021024HP	105(0.15)/125µm	PMF1550	7(0.12)/130(0.45)/250µm

The above combiners have 5x5x50mm aluminum packaging. Standard pigtail lengths are 0.75 meters for PLMA fiber types and 1 meter for all other products. Non-standard fiber types, packaging and pigtail lengths are available on request.

### PACKAGE OUTLINES

