



## **Pump/Combiner**

Active (2+1)×1 Combiner

A fiber optic active pump combiner (also called a doped fiber pump combiner) is manufactured by coupling the pump power directly into a doped fiber (e.g. erbum-ytterbium). In a traditional pump combiner application, the end-user splices the combiner's passive fiber output to a doped fiber, possibly resulting in back scattering. Lightel's active pump combiner eliminates the splice to the gain element and any backward signal to the pump lasers is reduced.

## **Features**

- · High Optical-Optical Conversion Efficiency
- Stable and Reliable
- Custom Configurations Available

## **Applications**

- High Power Fiber Lasers
- Fiber Amplifiers





Parameter	Specific	Specification	
Port Configuration	(1+1)×1 or (2+1)×1		
Pump Wavelength	800~1000nm		
Signal Wavelength	1030~1080nm or 1550~1600nm		
Signal Input Fiber	DCF-EY-10/128	LMA-YDF-10/130 M	
Pump Fiber	105/125 0.15NA/0.22NA		
Output Fiber	DCF-EY-10/128	LMA-YDF-10/130 M	
Pump Efficiency	>90%	>90%	
Signal Insertion Loss	<0.3 dB	<0.3 dB	
Optical-optical Conversion Efficiency	>26%	>56%	
Total Power Handling	30W	50W	
Return Loss	>45 dB		
Pigtail	Standard 1m or custom		
Operating Temperature	0~75°C		
Storage Temperature	-40~85°C		

Note1: Values are referenced without connectors.

Note2: Other package dimensions and optical performances available by request.

## **⊙** Ordering Information

A P C - - - - Wavelength Pour Configuration 1: (1+1)x1 A: 1060mm Sissible Signal Fiber Signal Fiber Output Fi

Note: These are our most popular configurations. Contact Lightel Sales for custom port counts or alternative fibers.

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