



# (2+1)x1 Multimode Pump-Signal Combiner

ACP's (2+1)x1 pump and signal combiner combines two pump laser sources and one signal into a single fiber output. It provides high pump efficiency with a maximum conservation of brightness. It generally used for laser applications and high-power fiber amplifiers for industrial, defense, medical and telecom applications.

All AC Photonics' products are Telcordia qualification tested.

## PERFORMANCE SPECIFICATIONS

Parameter	Specifications		
Port Configuration	(2+1) x 1	(2+1) x 1	(2+1) x 1
Single Wavelength	1060nm	1550nm	2000nm
Pump Wavelength	800 - 1000nm		
Signal Insertion Loss	≤ 0.70dB		≤ 1.0dB
Pump Efficiency	≥ 90%		
Pump Power	≤ 30W		
Operating Temperature <sup>1)</sup>	0 to +50°C		
Storage Temperature	- 40 to +85°C		
Pump Port Fiber Type	105/125 (NA=0.22) and 105/125 (NA=0.15)		
Signal Port Fiber Type	HI1060 fiber SM-GDF-10/125 fiber LMA-GDF-10/130 fiber	SMF-28 Ultra fiber SM-GDF-1550 fiber LMA-GDF-10/130 fiber	SM1950 fiber
Common port Fiber Type	SM-GDF-10/125 fiber LMA-GDF-10/130 fiber		LMA-GDF-10/130 fiber
Package Dimensions (LxWxH)	A=Ø4.0x60mm B=50x5.0x5.0mm C=70x12x8.0mm		

All values referenced are without connector.

1) The operating temperature is for maximum pump power per port.

## FEATURES

- High Power Transfer Efficiency
- Low Signal Insertion Loss
- High Power Package
- Custom Configurations Available
- ROHS Compliant

## APPLICATION

- Fiber Lasers
- Fiber Amplifiers
- CATV Amplifiers
- Industrial and Biomedical
- Telecommunication and Defense

## (2+1)X1 Multimode Pump-Signal Combiner

### MECHANICAL DIMENSIONS

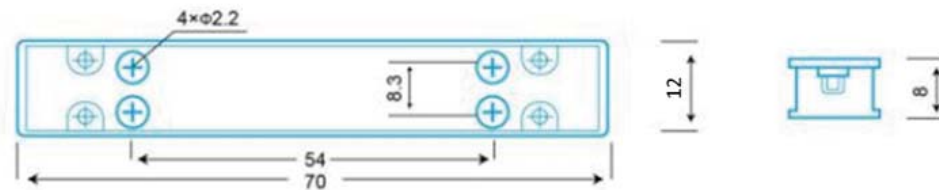
A package:



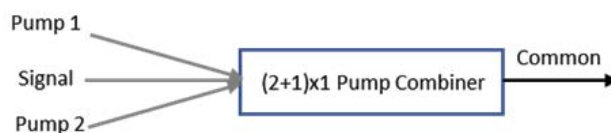
B package:



C package:



### PORT CONFIGURATIONS



### ORDERING INFORMATION

Pump Handling	Pump Wavelength	Single Wavelength	Port*	Package	Pump Port Fiber Type	Signal Port Fiber Type**	Com Port Fiber Type**	Pigtail Style	Fiber Length****
05=5W	94=940nm	06=1060nm	201=(2+1)X1	A= A package	C1=105/125 (0.22NA)	1=SMF-28(G.652)***	D1=9/105/125 Double Clad (0.22) NA	1=Bare fiber	05=0.5m
10=10W	95=955nm	55=1550nm		B= B package	C2=105/125 (0.15NA)	2=SMF-28 Ultra (G.657.A1)	D7=SM-GDF-1550	2=900um loose tube	10=1.0m
		2K=2000nm		C= C package		3=ClearCurve ZBL(G.657.B3)	D8=LMA-GDF-10/130		.
					4=HI1060				20=2.0m
						D6=SM-GDF-10/125			
						D7=SM-GDF-1550			
						D8=LMA-GDF-10/130			

\* Higher number of pump port is also available upon request

\*\* Other fiber types are available upon request.

\*\*\* 1=SMF-28(G.652) is available upon request.

\*\*\*\* Other length is available upon request, However, 900µm loose tube is only up to 2m.