



(6+1)X1 Multimode Pump-Signal Combiner

ACP's (6+1)x1 pump and signal combiner combines six 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	(6+1) x 1	(6+1) x 1
Single Wavelength	1060nm	1550nm
Pump Wavelength	800 - 1000nm	
Signal Insertion Loss	≤ 1.3dB	
Pump Efficiency	≥ 90%	
Pump Power	≤ 30W	
Operating Temperature ¹⁾	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
Common port Fiber Type	SM-GDF-10/125 fiber LMA-GDF-10/130 fiber	
Package Dimensions (LxWxH)	A=∅4.0x60 (for ≤ 5W pump power per port) B=50x5.0x5.0 (for ≤ 5W pump power per port) C=70x12x8.0 (for ≤ 30W pump power per port)	

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

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MECHANICAL DIMENSIONS

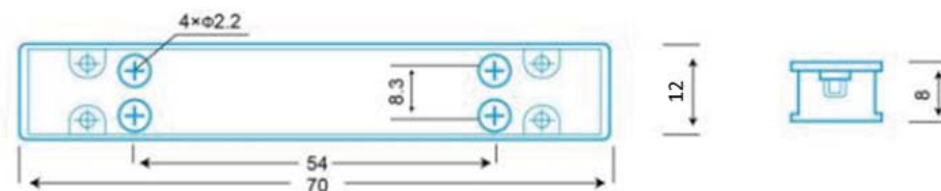
A package:



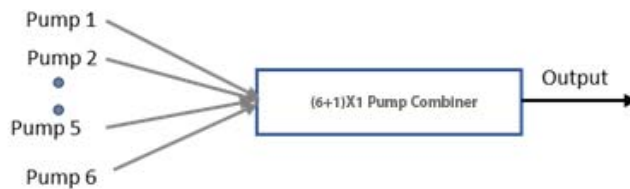
B package:



C package:



PORT CONFIGURATIONS



ORDERING INFORMATION

PWC	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	601=(6+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		2=SMF-28 Ultra (G.657.A1)		2=900um loose tube	10=1.0m
					C= C package	C2=105/125 (0.15NA)	3=ClearCurve ZBL(G.657.B3)	D7=SM-GDF-1550		.
							4=HI1060	D8=LMA-GDF-10/130		.
							D6=SM-GDF-10/125			20=2.0m
							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.