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

ACP's (2+1)x1 PM pump and signal combiner combines two pump laser sources and one signal into a signal fiber output. It provides high pump efficiency with a maximum conservation of brightness. It is 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%		
Polarization Extinction Ratio	≥ 18dB		
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	PM980 fiber PLMA-GDF-10/125-M PLMA-GDF-25/300	PM1550 fiber PLMA-GDF-10/125-M PLMA-GDF-25/300	PM1950 fiber
Common port Fiber Type	PLMA-GDF-10/125-M PLMA-GDF-25/300		PM-GDF-10/130-2000-M
Package Dimensions (LxWxH)	A=Ø4.0x60 (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
- High PER
- Custom Configurations Available
- ROHS Compliant

APPLICATION

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

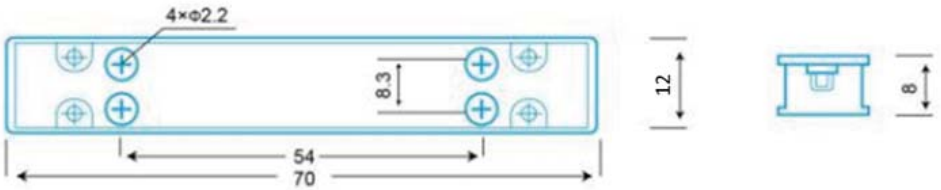
(2+1)X1 PM Multimode Pump-Signal Combiner

MECHANICAL DIMENSIONS

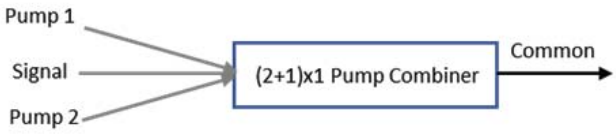
A package:

B package:

C package:



PORT CONFIGURATIONS



ORDERING INFORMATION

PMPWC	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 10=10W	94=940nm 95=955nm	06=1060nm 55=1550nm 2K=2000nm	201=(2+1)X1	A=A package B=B package C=C package	C1=105/125 (0.22NA) C2=105/125 (0.15NA)	L=PM980 N=PM1550 P=PM1950 PD1=PLMA-GDF-10/125-M PD2=PLMA-GDF-25/300	PD1=PLMA-GDF-10/125-M PD2=PLMA-GDF-25/300 PD3=PM-GDF-10/130-2000-M	1=Bare fiber 2=900um loose tube	05=0.5m 10=1.0m · · · 20=2.0m

* Higher number of pump port is also available upon request

** Other fiber types are available upon request.

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