

(2+1)×1 Multi-Mode Pump Combiner (MPC)

Description:

This (2+1)×1 multi-mode fiber combiner is designed for high power fiber laser and fiber amplifier application. It combines two pump lasers and one signal channel into one fiber and creates a high power pump laser source for fiber laser and fiber amplifier.

Product Applications

- High Signal Transfer Efficiency
- Wavelength Insensitive
- Customized Configurations Available

	Parameters/Test conditions	Min	Typical	Max	Unit	Note
1	Signal operating wavelength	1020	1060	1080	nm	
2	Pump operating wavelength	800		1000	nm	
3	Pump Input Fiber	Core Diameter	105		um	
4		Cladding Diameter	125		um	
5		Coating Outer Diameter	245		um	
6		Numerical Aperture	0.22		----	
7	Signal Feed Through Fiber	Core Diameter	20		um	
8		Inner Cladding Diameter	125		um	
9		Outer Cladding Diameter	245		um	Low index coating
10		Core/inner cladding NA	0.08		----	
11		Inner cladding/Outer cladding NA	0.46		----	
12	Pump Efficiency	90			%	Tested by 916nm pump laser
13	Signal Insertion Loss			0.5	dB	@1064nm
14	Optical Return Loss	35			dB	
15	Fiber Length	0.8			m	Every port
16	Handling power			30	W	Each port With cooling
17	Operating Environment Temperature	-5		+70	°C	
18	Operating Humidity	5		95	%RH	
19	Storage Temperature	-40		+85	°C	
20	Dimension(Width × Height ×Length)	70×12×8			mm	Cuboid shape

1. Tested at 23°C, all SOP, and values referenced without connector.

2. Tested at 0~70°C, all SOP, and values referenced without connector.

Dimension:

