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

Description

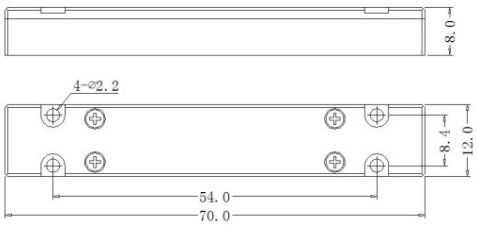
This (2+1)×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines two pump lasers and one signal channel into one double cladding output fiber. Fiber type can be customized.

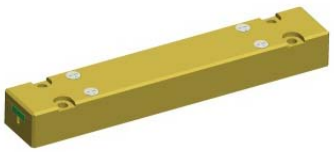
Key Features

- High Signal Transfer Efficiency
- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

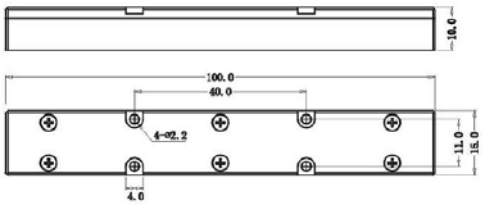
Mechanical Dimension

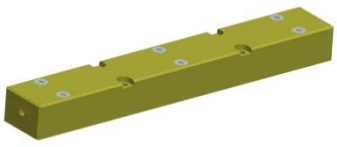
C4: 70x12x8





C7: 100x15x10





Unit: mm

Specifications

Parameters/Test conditions			Min	Typ.	Max	Unit	Note
1	Signal Operating Wavelength		1000	1064	1100	nm	
2	Pump Operating Wavelength		800		1000	nm	
3	Pump Fiber	Core Diameter		200		μm	Refer to fiber codes
4		Cladding Diameter		220		μm	
5		Numerical Aperture	0.22			-	
6	Signal Fiber		25/250 DCF				Refer to fiber codes
			Pump Efficiency (%)		Signal Insertion Loss (dB)		Refer to fiber codes
7	Output Fiber	25/250 DCF	>90（Typ. 93）		<0.5（Typ. 0.3）		
8	M^2				1.3	-	
9	Optical Isolation		25	30		dB	
10	Fiber Length		0.8			m	Each port
11	Power Handling			25	100	W	Each port
12	Operating Environment Temperature		-5		+70	^oC	
13	Operating Humidity		5		95	%RH	Not recommend in high humidity for long time.
14	Storage Temperature		-40		+85	^oC	
15	Package		C4, C7			-	Handling power is different with PKG

Ordering Information

MPC-(2+1)×1-F(B)-Pump wavelength/Pump power-Signal wavelength-Pump fiber/Signal fiber-Output fiber-Package-Fiber length

Note :

F: Forward pump; B: Backward pump.

Pump/Signal/Output fiber: refer to fiber codes.

Package: C4, C7

C4: 25W/port; C7: 100W/port