

2×1 Multi-Mode Pump Combiner (MPC)

Description

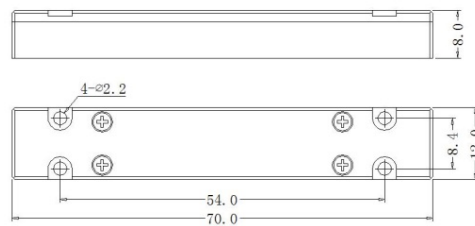
This 2×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines two pump lasers into one multi-mode output fiber. Fiber type can be customized.

Key Features

- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

Mechanical Dimension

C4: 70x12x8



Unit: mm

Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Pump Operating Wavelength	800		1000	nm	
2	Pump Fiber	Core Diameter	105		μm	Refer to fiber codes
3		Cladding Diameter	125		μm	
4		Numerical Aperture	0.15		-	
5	Output Fiber	105/125 0.22NA				Refer to fiber codes
6	Pump Efficiency	90			%	
7	Fiber Length	0.8			m	Each port
8	Power Handling			25	W	Each port
9	Operating Environment Temperature	-5		+70	°C	
10	Operating Humidity	5		95	%RH	
11	Storage Temperature	-40		+85	°C	
12	Package	C4			-	

Ordering Information

MPC-2×1- Pump wavelength/Pump power- Pump fiber -Output fiber-Package-Fiber length

Note :

Pump/Output fiber: refer to fiber codes.

Package: C4

N×1 Multi-Mode Pump Combiner (MPC)

Description

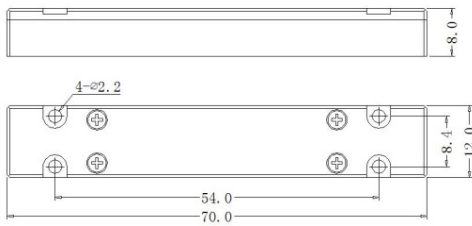
This N×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines N pump lasers into one double cladding output fiber. Fiber type can be customized.

Key Features

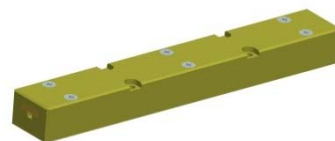
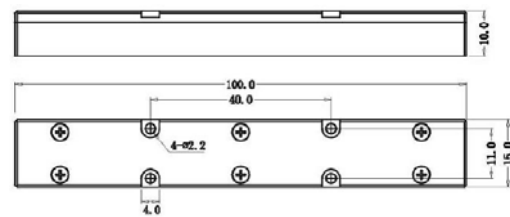
- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

Mechanical Dimension

C4: 70x12x8



C7: 100x15x10



Unit: mm

Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Pump Operating Wavelength	800		1000	nm	
2	Pump Fiber	Core Diameter		105	μm	Refer to fiber codes.
3		Cladding Diameter		125	μm	
4		Numerical Aperture	0.15		-	
		Configuration (Nx1)		Pump Efficiency (%)	Power Handling (W, each port)	
5	Output Fiber	x/125 DCF (x=6,10,...)	7x1	>93 (Typ. 95)	50	
		10/200 DCF	7x1	>95 (Typ. 97)	50	
		25/250 DCF	7x1	>95 (Typ. 97)	50	
		20/400 DCF	7x1	>95 (Typ. 97)	200	
		10/200 DCF	19x1	>93 (Typ. 95)	20	
		25/250 DCF	19x1	>93 (Typ. 95)	25	
		20/400 DCF	19x1	>93 (Typ. 95)	80	
6	Fiber Length	0.8			m	Each port
7	Operating Environment Temperature	-5		+70	°C	
8	Operating Humidity	5		95	%RH	Not recommend in high humidity for long time.
9	Storage Temperature	-40		+85	°C	
10	Package	C4, C7			-	Handling power is different with PKG

Ordering Information

MPC-N×1- Pump wavelength/Pump power- Pump fiber -Output fiber-Package-Fiber length

Note :

N: Pump port number.

Pump/Output fiber: refer to fiber codes.

Package: C4, C7

C4: total power < 150W, C7: total power >= 150W

N×1 Multi-Mode Pump Combiner (MPC)

Description

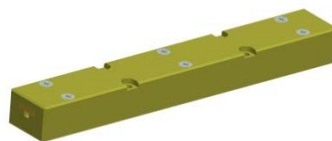
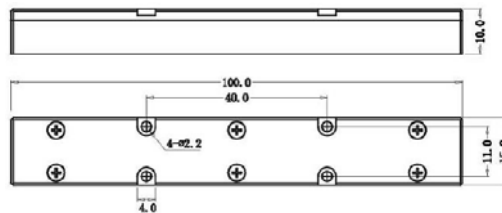
This N×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines N pump lasers into one multi-mode output fiber. Fiber type can be customized.

Key Features

- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

Mechanical Dimension

C7: 100x15x10



Unit: mm

Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Pump Operating Wavelength	800		1000	nm	
2	Pump Fiber	Core Diameter		105	μm	Refer to fiber codes.
3		Cladding Diameter		125	μm	
4		Numerical Aperture	0.15		-	
		Configuration (Nx1)		Pump Efficiency (%)	Power Handling (W, each port)	
5	Output Fiber	200/220 0.22NA	7x1	>90 (Typ. 93)	25	
		220/240 0.22NA	7x1	>93 (Typ. 95)	25	
		400/440 0.22NA	7x1	>95 (Typ. 97)	50	
		400/440 0.22NA	19x1	>90 (Typ. 93)	25	
6	Fiber Length	0.8			m	Each port
7	Operating Environment Temperature	-5		+70	°C	
8	Operating Humidity	5		95	%RH	
9	Storage Temperature	-40		+85	°C	
10	Package	C7			-	

Ordering Information

MPC-N×1- Pump wavelength/Pump power- Pump fiber -Output fiber-Package-Fiber length

Note :

N: Pump port number.

Pump/Output fiber: refer to fiber codes.

Package: C7

N×1 Multi-Mode Pump Combiner (MPC)

Description

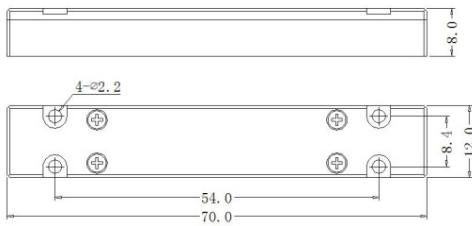
This N×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines N pump lasers into one double cladding output fiber. Fiber type can be customized.

Key Features

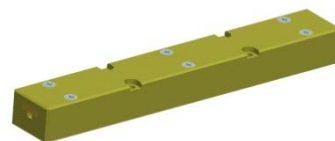
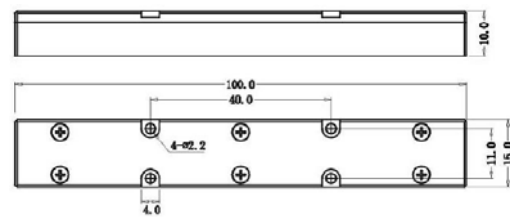
- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

Mechanical Dimension

C4: 70x12x8



C7: 100x15x10



Unit: mm

Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Pump Operating Wavelength	800		1000	nm	
2	Pump Fiber	Core Diameter		105	μm	Refer to fiber codes.
3		Cladding Diameter		125	μm	
4		Numerical Aperture	0.22		-	
		Configuration (Nx1)		Pump Efficiency (%)	Power Handling (W, each port)	
5	Output Fiber	x/125 DCF (x=6,10,...)	3x1	>93 (Typ. 95)	25	
		25/250 DCF	7x1	>93 (Typ. 95)	50	
		20/400 DCF	7x1	>95 (Typ. 97)	100	
		25/250 DCF	19x1	>88 (Typ. 90)	20	
		20/400 DCF	19x1	>93 (Typ. 95)	50	
6	Fiber Length	0.8			m	Each port
7	Operating Environment Temperature	-5		+70	°C	
8	Operating Humidity	5		95	%RH	Not recommend in high humidity for long time.
9	Storage Temperature	-40		+85	°C	
10	Package	C4, C7			-	Handling power is different with PKG

Ordering Information

MPC-N×1- Pump wavelength/Pump power- Pump fiber -Output fiber-Package-Fiber length

Note :

N: Pump port number.

Pump/Output fiber: refer to fiber codes.

Package: C4, C7

C4: total power < 150W, C7: total power >= 150W

N×1 Multi-Mode Pump Combiner (MPC)

Description

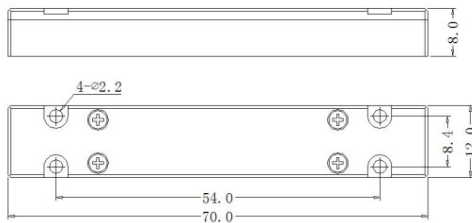
This N×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines N pump lasers into one multi-mode output fiber. Fiber type can be customized.

Key Features

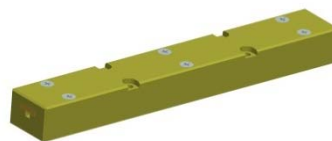
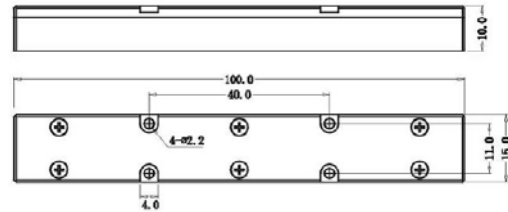
- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

Mechanical Dimension

C4: 70x12x8



C7: 100x15x10



Unit: mm

Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Pump Operating Wavelength	800		1000	nm	
2	Pump Fiber	Core Diameter		105	μm	Refer to fiber codes.
3		Cladding Diameter		125	μm	
4		Numerical Aperture	0.22		-	
		Configuration (Nx1)		Pump Efficiency (%)	Power Handling (W, each port)	
5	Output Fiber	200/220 0.22NA	3x1		>93 (Typ. 95)	25
		220/240 0.22NA	3x1		>93 (Typ. 95)	25
		400/440 0.22NA	7x1		>93 (Typ. 95)	50
6	Fiber Length	0.8			m	Each port
7	Operating Environment Temperature	-5		+70	°C	
8	Operating Humidity	5		95	%RH	
9	Storage Temperature	-40		+85	°C	
10	Package	C4, C7			-	Handling power is different with PKG

Ordering Information

MPC-N×1- Pump wavelength/Pump power- Pump fiber -Output fiber-Package-Fiber length

Note :

N: Pump port number.

Pump/Output fiber: refer to fiber codes.

Package: C4, C7

C4: total power <150W; C7: total power >= 150W

7×1 Multi-Mode Pump Combiner (MPC)

Description

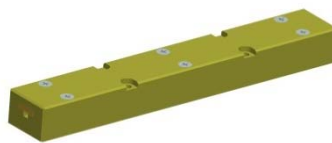
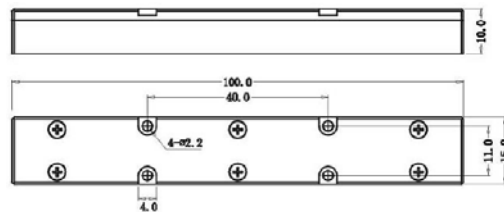
This 7×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines 7pcs pump lasers into one double cladding output fiber. Fiber type can be customized.

Key Features

- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

Mechanical Dimension

C7: 100x15x10



Unit: mm

Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Pump Operating Wavelength	800		1000	nm	
2	Pump Fiber	Core Diameter	200		μm	Refer to fiber codes
3		Cladding Diameter	220		μm	
4		Numerical Aperture	0.22		-	
5	Output Fiber	20/400 DCF				Refer to fiber codes
6	Pump Efficiency	95	97		%	
7	Fiber Length	0.8			m	Each port
8	Power Handling			150	W	Each port
9	Operating Environment Temperature	-5		+70	°C	
10	Operating Humidity	5		95	%RH	
11	Storage Temperature	-40		+85	°C	
12	Package	C7			-	

Ordering Information

MPC-7×1- Pump wavelength/Pump power- Pump fiber -Output fiber-Package-Fiber length

Note :

Pump/Output fiber: refer to fiber codes.

Package: C7

7×1 Multi-Mode Pump Combiner (MPC)

Description

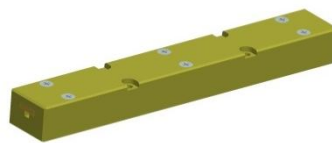
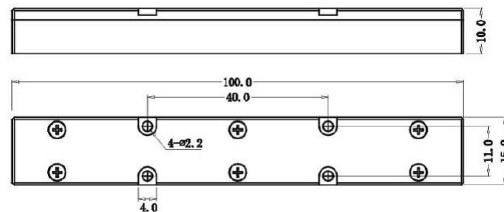
This 7×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines 7pcs pump lasers into one double cladding output fiber. Fiber type can be customized.

Key Features

- High Pump Efficiency
- Wavelength Insensitive
- Custom Configurations Available

Mechanical Dimension

C7: 100x15x10



Unit: mm

Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Pump Operating Wavelength	800		1000	nm	
2	Pump Fiber	Core Diameter	200	220	μm	Refer to fiber codes
3		Cladding Diameter	220	242	μm	
4		Numerical Aperture	0.22		-	
5	Output Fiber	20/400 DCF				Refer to fiber codes
6	Pump Efficiency	95	97		%	
7	Fiber Length	0.8			m	Each port
8	Power Handling			150	W	Each port
9	Operating Environment Temperature	-5		+70	°C	
10	Operating Humidity	5		95	%RH	
11	Storage Temperature	-40		+85	°C	
12	Package	C7			-	

Ordering Information

MPC-7×1- Pump wavelength/Pump power- Pump fiber -Output fiber-Package-Fiber length

Note :

Pump/Output fiber: refer to fiber codes.

Package: C7

7×1 Multi-Mode Pump Combiner (MPC)

Description

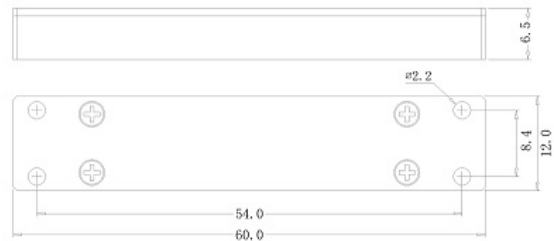
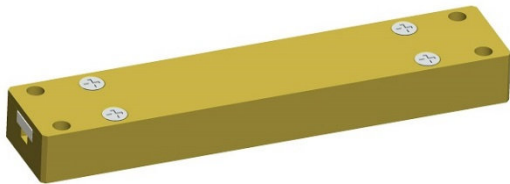
This 7×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines 7pcs pump lasers into one output fiber. Fiber type can be customized.

Key Features

- High Pump Efficiency
- Wavelength Insensitive

Mechanical Dimension

S1: 60x12x6.5



Unit: mm

Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Pump Operating Wavelength	800		1000	nm	
2	Pump Fiber	Core Diameter		105	μm	Nufern
		Cladding Diameter		125	μm	MM-S105/125-0.15NA
		Numerical Aperture		0.15	-	Fiber code "120"
3	Output Fiber	Core Diameter		220	μm	Nufern FUD-3659
		Cladding Diameter		242	μm	Fiber code "144"
		Numerical Aperture		0.22	-	
4	Pump Efficiency	97	98		%	
5	Fiber Length	1.0			m	Each port
6	Power Handling			200	W	Each port
7	Operating Environment Temperature	-5		+70	°C	
8	Operating Humidity	5		95	%RH	
9	Storage Temperature	-40		+85	°C	
10	Package	S1			-	

Ordering Information

MPC-7×1-915/200w-120-144-S1-1.0m

Product information is subject to change without notice.

7×1 Multi-Mode Pump Combiner (MPC)

Description

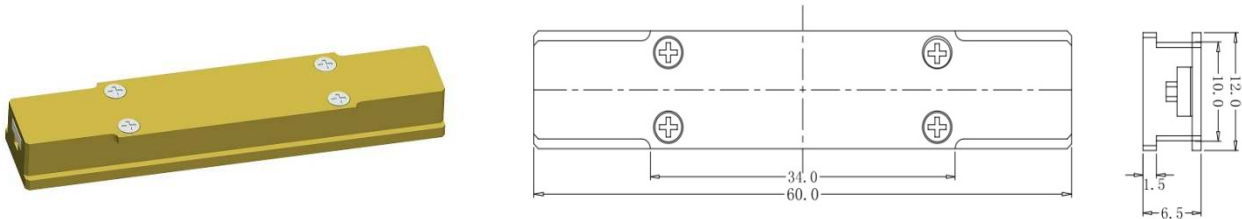
This 7×1 multi-mode fiber combiner is designed for high power fiber laser application. It combines 7pcs pump lasers into one output fiber. Fiber type can be customized.

Key Features

- High Pump Efficiency
- Wavelength Insensitive

Mechanical Dimension

S2: 60x12x6.5



Unit: mm

Specifications

Parameters/Test conditions		Min	Typ.	Max	Unit	Note
1	Pump Operating Wavelength	800		1000	nm	
2	Pump Fiber	Core Diameter	105		μm	Nufern
		Cladding Diameter	125		μm	MM-S105/125-0.15NA
		Numerical Aperture	0.15		-	Fiber code "120"
3	Output Fiber	Core Diameter	220		μm	Nufern FUD-3659
		Cladding Diameter	242		μm	Fiber code "144"
		Numerical Aperture	0.22		-	
4	Pump Efficiency	97	98		%	
5	Fiber Length	1.0			m	Each port
6	Power Handling			200	W	Each port
7	Operating Environment Temperature	-5		+70	°C	
8	Operating Humidity	5		95	%RH	
9	Storage Temperature	-40		+85	°C	
10	Package	S2			-	

Ordering Information

MPC-7×1-915/200w-120-144-S2-1.0m

Product information is subject to change without notice.