PHOTONWARES

(N+1)x1 PM Fiber Pump Combiner (N<7)

(Patent pending)

Product Description

The LLCB series of (N+1)x1 fiber combiner is designed for high power fiber laser application. They combine N pump lasers and one signal channel into a laser fiber. The LLCB cover a wide range of fiber types.

Features

- High Pump Efficiency
- High Signal Transfer
- Wavelength Insensitivity
- Custom Configurations
- Low insertion loss

Performance Specifications

LLCB	Min	Typical	Max	Unit
Signal Central Wavelength	1064		2000	nm
Pump Central Wavelength	800		1000	nm
Pump Port Number (N)	2		7	number
Pump Coupling Efficiency	88	90	93	%
Signal Insertion Loss	0.7	0.5	0.3	dB
Polarization Extinction Ratio	18			dB
Maximum Power/Port		5	10	W
Optical Isolation	15	25	30	dB
Operating Temperature	-5		70	ºC
Storage Temperature	-40		85	ºC

[1] Operation bandwidth is +/- 25nm approximately at 1550nm.
[2] Measured without connectors. For other wavelength, please contact us.
[3] Defined at 1310nm/1550nm. For the shorter wavelength, the handling power may be reduced, contact us for more information.

Applications

- Fiber Lasers
- Fiber Amplifiers
- Instrumentation

Mechanical Dimensions (mm)

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

LLCB	☐	☐	☐	☐ ☐	☐	☐ ☐	☐	☐ ☐	☐
	N	**Wavelength**	**Package**	**Input Fiber** Core Cladding Type		**Pump Fiber** NA Core/Cladding		**Output Fiber** Core Cladding Type	
	2 = 2 3 = 3 4 = 4 5 = 5 6 = 6 7= 7	980 = 9 1060 = 1 1550 = 5 2000 = 2 Special=0	Standard=2 Special=0	None = 00 0 PM980 = 04 1 PM6/125= 06 1 PM10/125=10 1 PM12/125=12 1 PM15/125=15 1 PM20/125=20 1 PM25/125=25 1 PM20/200=20 2 PM30/250=30 3 PM20/400=20 4	Regular=1 DCF =2 TCF =3	0.15=15 0.22=22	105/125=1 200/220=2 220/242=3	PM980 = 04 1 PM6/125= 06 1 PM10/125=10 1 PM12/125=12 1 PM15/125=15 1 PM20/125=20 1 PM25/125=25 1 PM20/200=20 2 PM30/250=30 3 PM20/400=20 4	Regular=1 DCF =2 TCF = 3

[1]. Standard Fiber Length = 0.7
[2]. Special package required for high humidity operation
[3]. Detailed fiber information must be written on PO