

450-690/2000nm Fused WDM Coupler for Pulse Power

FEATURES

- Low Excess Loss
- Variety Coupling Ratio
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

APPLICATIONS

- LAN WAN Systems
- Signal Monitoring
- Network Monitoring
- CATV
- Test Equipments



SPECIFICATIONS

Parameter	Unit	Value
Wavelength Range Channel 1 (λ_1)	nm	460 \pm 10, 488 \pm 10, 520 \pm 10, 532 \pm 10 635 \pm 10, 650 \pm 10, 660 \pm 10, 690 \pm 10
Wavelength Range Channel 2 (λ_2)	nm	1900 \pm 10, 1930 \pm 20, 1950 \pm 20, 2000 \pm 20, 2030 \pm 20, 2050 \pm 20 2070 \pm 10, 2090 \pm 10
Insertion Loss @ λ_2	dB	\leq 1.0
Insertion Loss @ λ_1	dB	\leq 1.5
Isolation	dB	\geq 10
Optical Return Loss	dB	\geq 40
Directivity	dB	\geq 50
Fiber Type		HI1060 Flex Fiber (F), SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber, NA=0.15 (O)
	Common&2um Port	-
	0.5um Port	-
Fiber Tensile Load	N	5
Max. Average Optical Power (λ_2)	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30
Max. Average Optical Power (λ_1)	mW	30, 100, 300, 500, 1000, 2000
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20
Operating Temperature	$^{\circ}$ C	0~50
Storage Temperature	$^{\circ}$ C	-40~85
Package Dimension	Stainless Steel Tube (SST) Metal Box	mm
		ϕ 3.0xL60 for Bare Fiber
		ϕ 3.0xL76 for 900um Loose Tube
		L120xW12xH10 for 2mm/3mm Cable

Note: 1. Specifications are for device without connectors; Specifications may change without notice.

2. To add connectors, IL is 0.9dB higher, RL is 5dB lower.

3. Only guarantee 30mW continuous wave (CW) power thru testing for connectors added.

4. 450~690nm transmits as low order modes in signal fiber.

5. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of

Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

6. Package size may be different for different optical power and fiber type.

ORDERING INFORMATION (PN)

FCLD-NNN NN - N (C) (C) -HNN P NN - (NN) - (C) (C) C NN -CC/CCC

Center Wavelength1	Center Wavelength2	Configuration	Mode	Fiber(λ_1)	Average Power	Peak Power	Average Power(0.5um)	Package	Fiber (Com&2.2)	Fiber Sleeve	Fiber Length	Connector Type
460-460nm	90-1900nm	1- 1x2 Type	M- Mux	F- HI1060Flex Fiber	03- 300mW	01- 100W	01- 100mW	M- Metal Box	V- SM1950 Fiber	B- Bare Fiber	05-0.5m	N- Without Connector
532-532nm	19-1950nm	2- 2x2 Type	D- Demux	H- 460HP/630HP Fiber	5-5W	5-5kW	05- 500mW	Blank for SST	F- HI1060Flex Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
20-2000nm	635-635nm		Blank for Both	S- SMF-28 Fiber	10-10W	10-10kW	1-1W		O- 10/130um DC Fiber	2-2mm Cable	15-1.5m	LC/PC=LC/PC Connector
25-2050nm	650-650nm			Blank for Same Fiber	30- 30W	20- 20kW	Blank for 30mW		Blank for SMF-28 Fiber	3-3mm Cable	20-2.0m	SC/UFC=SC/UFC Connector