

450-690/2000nm High Power Fused WDM Coupler

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±10, 488±10, 520±10, 532±10 635±10, 650±10, 660±10, 690±10
Wavelength Range Channel 2 (λ_2)	nm	1900±10, 1930±20, 1950±20, 2000±20, 2030±20, 2050±20 2070±10, 2090±10
Insertion Loss @ λ_2	dB	≤1.0
Insertion Loss @ λ_1	dB	≤1.5
Isolation	dB	≥10
Optical Return Loss	dB	≥40
Directivity	dB	≥50
Fiber Type	Common&2um Port	HI1060 Flex Fiber (F), SMF-28 Fiber or SM1950 Fiber (V) 10/130um DC Fiber, NA=0.15 (O)
	0.5um Port	Same Fiber or 460HP Fiber/630-HP Fiber
Fiber Tensile Load	N	5
Max. Optical Power (CW, λ_2)	W	1, 2, 3, 5, 10, 15, 20, 25, 30
Max. Optical Power (CW, λ_1)	mW	30, 100, 300, 500, 1000, 2000
Operating Temperature	°C	0~50
Storage Temperature	°C	-40~85
Package Dimension	Stainless Steel Tube (SST)	mm $\phi 3.0 \times L60$ for Bare Fiber $\phi 3.0 \times L76$ for 900um Loose Tube
	Metal Box	$L120 \times W12 \times H10$ 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.

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)-HP NN - (NN) -(C) (C) C NN -CC/CCC

Center Wavelength1	Center Wavelength2	Configuration	Mode	Fiber(λ_1)	Optical Power	Average Power(0.5um)	Package	Fiber (Com& λ_2)	Fiber Sleeve	Fiber Length	Connector Type
460-460nm	90-1900nm	1-1x2 Type	M- Mux	F- HI1060Flex Fiber	1-1W	01- 100nW	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	10-10W	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	20-20W	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	Blank for 30mW		Blank for SMF-28 Fiber	3-3mm Cable	20-2.0m	SC/UPC-SC/UPC Connector