

405-690/1020~1150nm 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	406 \pm 10, 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	1020 \pm 10, 1030 \pm 10, 1040 \pm 10, 1053 \pm 10, 1064 \pm 10, 1070 \pm 10, 1080 \pm 10, 1092 \pm 10, 1100 \pm 10, 1120 \pm 10, 1150 \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	Common&1um Port	-	HI1060 Fiber or HI1060 Flex Fiber (F) 10/125um SC Fiber (E) or 10/125um DC Fiber (O)
	0.5um Port	-	Same Fiber or 460HP Fiber/630-HP Fiber
Fiber Tensile Load	N	5	
Max. Optical Power (CW, λ_2)	mW	300	
Max. Optical Power (CW, λ_1)	mW	30	
Operating Temperature	$^{\circ}$ C	0~50	
Storage Temperature	$^{\circ}$ C	-40~85	
Package Dimension	Stainless Steel Tube (SST) Metal Box	mm	ϕ 3.0x ^L 60 for Bare Fiber
			ϕ 3.0x ^L 76 for 900um Loose Tube
			^L 120x ^W 12x ^H 10 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. 405-690nm may 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)	-(C)	(C)	C	NN	-CC/CCC
Wavelength1	Wavelength2	Configuration	Mode	Fiber(λ_1)	Package	Fiber (Com& λ_2)	Fiber Sleeve	Fiber Length	Connector Type
460-460nm	02-1020nm	1- 1x2 Type	M- Mux	F- HI1060Flex Fiber	M-Metal Box	F- HI1060 Flex	B- Bare Fiber	05-0.5m	N-Without Connector
532-532nm	03-1030nm	2- 2x2 Type	D- Demux	H- 460HP/630HP Fiber	Blank for SST	E- 10/125 SC Fiber	L- Loose Tube	10-1.0m	FC/APC-FC/APC Connector
635-635nm	660-660nm		Blank for Both	S-HI1060 Fiber		O-10/125um DC Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
660-660nm	635-635nm			Blank for Same Fiber		Blank for HI1060 Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector