

## 760-850/2000nm 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	nm	760±10, 780±10, 793±10, 808±10, 830±10, 850±10	
Wavelength Range Channel 2	nm	1900±10, 1950±20, 2000±20, 2050±10	
Insertion Loss	dB	≤1.0	≤1.5
Isolation	dB	≥13	
Optical Return Loss	dB	≥40	
Directivity	dB	≥50	
Fiber Type	-	HI1060 Flex Fiber (F) or SMF-28 Fiber	HI780 Fiber(H) or 780-HP Fiber(7) SM1950 Fiber (V) 10/130um DC Fiber (O) NA=0.15
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	mW	300	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	∅3.0x <sup>L</sup> 60 for Bare Fiber
	Metal Box		∅3.0x <sup>L</sup> 76 for 900um Loose Tube
			<sup>L</sup> 120x <sup>W</sup> 12x <sup>H</sup> 10 for 2mm/3mm Cable

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

2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.

3. 760~850nm transmits as low order modes in signal fiber.

4. 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.

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

### ORDERING INFORMATION (PN)

**FCLD- NN NN N (C) (C) - (C) (C) C NN - CC/CCC**

Center Wavelength <sup>2</sup>	Center Wavelength <sup>1</sup>	Configuration	Mode	Fiber(λ <sup>1</sup> )	Package	Fiber (Com&λ <sup>2</sup> )	Fiber Sleeve	Fiber Length	Connector Type
90-1900nm	78-780nm	1- 1x2 Type	M- Mux	H- HI780 Fiber	M- Metal Box	V- SM1950 Fiber	B- Bare Fiber	05-0.5m	N- Without Connector
19-1950nm	79-793nm	2- 2x2 Type	D- Demux	7-780-HP Fiber	Blank for SST	F- HI1060 Flex Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
83-830nm	20-2000nm			S- SMF-28 Fiber		O- 10/130DC Fiber	2-2mm Cable	15-1.5m	LC/PC=LC/PC Connector
85-850nm	25-2050nm			Blank for Same Fiber		Blank for SMF-28 Fiber	3-3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector