

## 760-850/2000nm 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	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)	W	1, 2, 3, 5, 10, 15, 20, 25, 30	
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
			∅3.0x <sup>L</sup> 76 for 900um Loose Tube
	Metal Box		<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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.

4. 760~850nm 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	-NN	NN	-N	(C)	(C)	-HP	NN	-(C)	(C)	C	NN	-CC/CCC
Center Wavelength1	Center Wavelength2	Configuration	Mode	Fiber(λ1)	Optical Power	Package	Fiber (Com&λ2)	Fiber Sleeve	Fiber Length	Connector Type		
78-780nm	90-1900nm	1- 1x2 Type	M= Mux	H= HI780 Fiber	1- 1W	M= Metal Box	V= SM1950 Fiber	B= Bare Fiber	05-0.5m	N= Without Connector		
79-793nm	19-1950nm	2- 2x2 Type	D= Demux	7-780-HP Fiber	10-10W	Blank for SST	F= HI1060 Flex Fiber	L= Loose Tube	10-1.0m	FC/APC=FC/APC Connector		
20-2000nm	83-830nm		Blank for Both	S=SMF-28 Fiber	20-20W		O= 10/130DC Fiber	2=2mm Cable	15-1.5m	LC/PC=LC/PC Connector		
25-2050nm	85-850nm			Blank for Some Fiber	30-30W		Blank for SMF-28 Fiber	3=3mm Cable	20-2.0m	SC/UFC=SC/UFC Connector		