

## 760-850/1310~1590nm 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 1 ( $\lambda_1$ )	nm	760±10, 780±10, 793±10, 808±10, 830±10, 850±10	
Wavelength Range 2 ( $\lambda_2$ )	nm	1310±20, 1550±20, 1590±20, 1625±10	
Insertion Loss ( $\lambda_1$ )	dB	≤1.0	
Insertion Loss ( $\lambda_2$ )	dB	≤1.0	≤1.5
Isolation (Demux)	dB	≥13	
Optical Return Loss	dB	≥40	
Directivity	dB	≥50	
Fiber Type	-	HI1060 Flex Fiber or SMF-28 Fiber	HI780 Fiber or 780-HP Fiber
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
	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 0.7dB 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 HI1060 Flex Fiber or SMF-28 Fiber.
  5. Devices for higher optical power or with other type fiber or consigned fiber are also available.
  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
Wavelength1	Wavelength2	Configuration	Mode	Fiber( $\lambda_1$ )	Optical Power	Package	Fiber (Com&L2)	Fiber Sleeve	Fiber Length	Connector Type
78-780nm	15-1550nm	1- 1x2 Type	M- Mux	H- HI780 Fiber	1- 1W	M-Metal Box	H-HI780 Fiber	B- Bare Fiber	05-0.5m	N-Without Connector
79-793nm	13-1310nm	2- 2x2 Type	D- Demux	7-780-HP Fiber	5- 5W	Blank for SST	7-780-HP Fiber	L- Loose Tube	10-1.0m	FC/APC=FC/APC Connector
59-1590nm	83-830nm		Blank for Both	S-SMF-28 Fiber	10-10W		F-HI1060 Flex Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector
62-1625nm	85-850nm			Blank for Same Fiber	30-30W		Blank for SMF-28 Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector