

760-850/1310~1590nm Fused PM WDM Coupler

FEATURES

- High Isolation
- Low Insertion Loss
- High Reliability and Stability
- Various Bandwidth
- High Optical Power

APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Research Labs
- Laser Systems



SPECIFICATIONS

Parameter	Unit	Value	
Wavelength Range 1 (λ_1)	nm	760±10, 780±10, 793±10, 808±10, 830±10, 850±10	
Wavelength Range 2 (λ_2)	nm	1310±20, 1550±20, 1590±20, 1625±10	
Insertion Loss (λ_1)	dB	≤1.0	
Insertion Loss (λ_2)		≤1.0	≤1.5
Isolation (Demux)	dB	≥13	
Extinction Ratio (λ_2)	dB	≥18	
Optical Return Loss	dB	≥40	
Directivity	dB	≥50	
Fiber Type	-	PM980 Fiber or PM1310/1550 Fiber	PM980 Fiber or PM1310/1550 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) Metal Box	mm	Φ3.0xL60 for Bare Fiber
			Φ3.0xL76 for 900um Loose Tube
			L120xW12xH10 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, ER is 2dB Lower, Connector key is aligned to slow axis.
 3. 760-850nm transmits as low order modes in PM980 or PM1550 Fiber.
 4. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
 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)

FPCD	NN	-	N	(C)	(C)	-HPNN	-	(C)	(C)	NN	-	CC/CCC
Wavelength1	Wavelength2	Configuration	Mode	Fiber(λ_1)	Optical Power	Package	Fiber (Com&L2)	Fiber Sleeve	Fiber Length	Connector Type		
78-780nm	15-1550nm	1- 1x2 Type	M= Mux	S= Corr. SM Fiber	1- 1W	M= Metal Box	H=PM980 Fiber	B= Bare Fiber	05=0.5m	N=Without Connector		
79-793nm	13-1310nm	2- 2x2 Type	D= Demux	I= HI780 Fiber	5- 5W	Blank for SST	2=PM850 Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector		
59-1590nm	83-830nm			7=PM780-HP Fiber	10-10W		7=PM780-HP Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector		
62-1625nm	85=850nm			Blank for Same Fiber	30= 30W		Blank for PM1310/1550 Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector		