

## 760-850/1310~1650nm Fused PM WDM Coupler for Pulse Power

### 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 ( $\lambda_1$ )	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 ( $\lambda_2$ )		≤1.0	≤1.5
Isolation (Demux)	dB	≥13	
Extinction Ratio ( $\lambda_2$ )	dB	≥18	
Optical Return Loss	dB	≥40	
Directivity	dB	≥50	
Fiber Type	-	PM980 Fiber or PM1310/1550 Fiber	PM780-HP Fiber or PM850 Fiber
Fiber Tensile Load	N	5	
Maximum Average Power	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30	
Max. Peak Power for Pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	Φ3.0xL60 for Bare Fiber
	Metal Box		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. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  4. 760-850nm transmits as low order modes in PM980 or PM1310/1550 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)

FPCD	NN	-N	(C)	(C)	-HNN	P NN	-(C)	(C)	C	NN	-CC/CCC
Wavelength1	Wavelength2	Configuration	Mode	Fiber( $\lambda_1$ )	Average Power	Peak Power	Package	Fiber (Com& $\lambda_2$ )	Fiber Sleeve	Fiber Length	Connector Type
78~780nm	15~1550nm	1- 1x2 Type	M= Mux	S= Corr. SM Fiber	03= 300mW	01= 100W	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	5= 5kW	Blank for SST	2= PM850 Fiber	L= Loose Tube	10= 1.0m	FC/APC= FC/APC Connector
59~1590nm	83~830nm		Blank for Both	7= PM780-HP Fiber	10= 10W	10= 10kW		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	20= 20kW		Blank for PM1310/1550 Fiber	3= 3mm Cable	20= 2.0m	SC/UPC= SC/UPC Connector