

760~850/1310~1650nm 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)	dB	≤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	PM780-HP Fiber or PM850 Fiber
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) Metal Box	mm	Φ3.0x ^L 60 for Bare Fiber
			Φ3.0x ^L 76 for 900um Loose Tube
			^L 120x ^W 12x ^H 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, ER is 2dB Lower, Connector key is aligned to slow axis.
 3. 760~850nm transmits as low order modes in PM980 or PM1310/1550 Fiber.
 4. Devices for higher optical power or with other type fiber or consigned fiber are also available.
 5. Package size may be different for different optical power and fiber type.

ORDERING INFORMATION (PN)

FPCD- NN	NN	-	N	(C)	(C)	- (C)	(C)	C	NN	- CC/CCC
Wavelength 1	Wavelength 2	Configuration	Mode	Fiber(λ_1)	Package	Fiber (Com λ_2)	Fiber Sleeve	Fiber Length	Connector Type	
78-780nm	15-1550nm	1-1x2 Type	M- Mux	S- Corr. SM Fiber	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	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		7-PM780-HP Fiber	2- 2mm Cable	15-1.5m	LC/PC=LC/PC Connector	
62-1625nm	85-850nm			Blank for Same Fiber		Blank for PM1310/1550 Fiber	3- 3mm Cable	20-2.0m	SC/UPC=SC/UPC Connector	