

## 450-690/2000nm High Power Fused PM 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 ( $\lambda_1$ )	nm	460±10, 488±10, 520±10, 532±10 635±10, 650±10, 660±10, 690±10	
Wavelength Range Channel 2 ( $\lambda_2$ )	nm	1900±10, 1930±20, 1950±20, 2000±20, 2030±20, 2050±20 2070±10, 2090±10	
Insertion Loss @ $\lambda_2$	dB	≤1.0	
Insertion Loss @ $\lambda_1$	dB	≤1.5	
Isolation	dB	≥10	
Extinction Ratio ( $\lambda_2$ )	dB	≥18	
Optical Return Loss	dB	≥40	
Directivity	dB	≥50	
Fiber Type	Common&2um Port	PM980 Fiber (H), PM1550 Fiber or PM1950 Fiber (V) 10/130um PMDC Fiber, NA=0.15 (O)	
	0.5um Port	Same Fiber, or PM460-HP Fiber/PM630-HP Fiber (P) Corr. SM Fiber (S) or 460-HP Fiber/630-HP Fiber (H)	
Fiber Tensile Load	N	5	
Max. Optical Power (CW, $\lambda_2$ )	W	1, 2, 3, 5, 10, 15, 20, 25, 30	
Max. Optical Power (CW, $\lambda_1$ )	mW	30, 300, 500, 1000, 2000	
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 0.9dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.

3. Only guarantee 30mW continuous wave (CW) power thru testing for connectors added.

4. 450~690nm transmits as low order modes.

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)

**FPCD-NNN NN - N (C) (C) -HPNN - (NN) -(C) (C) C NN -CC/CCC**

Center Wavelength1	Center Wavelength2	Configuration	Mode	Fiber( $\lambda_1$ )	Optical Power	Average Power(0.5um)	Package	Fiber (Com&A2)	Fiber Sleeve	Fiber Length	Connector Type
460-460nm	90-1900nm	1- 1x2 Type	M- Mux	S- Corr. SM Fiber	1- 1W	01- 100nW	M-Metal Box	V- PM1950 Fiber	B-Bare Fiber	05-0.5m	N-Without Connector
532-532nm	19-1950nm	2- 2x2 Type	D- Demux	P- PM460/PM630 Fiber	10-10W	05- 500mW	Blank for SST	H- PM980 Fiber	L-Loose Tube	10-1.0m	FC/APC=FC/APC Connector
20=2000nm	635=635nm		Blank for Both	H=460HP/630HP Fiber	20=20W	1-1W		O- 10/130um PMDC Fiber	2-2mm Cable	15-1.5m	LC/PC=LC/PC Connector
25=2050nm	650=650nm			Blank for Same Fiber	30=30W	Blank for 30mW		Blank for PM155 Fiber	3-3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector