

## 450-690/2000nm Fused PM WDM Coupler for Pulse Power

### 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. Average Optical Power ( $\lambda_2$ )	W	0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 25, 30	
Max. Average Optical Power ( $\lambda_1$ )	mW	30, 300, 500, 1000, 2000	
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
		mm	Φ3.0xL76 for 900um Loose Tube
	Metal Box	mm	L120x <sup>W</sup> 12x <sup>H</sup> 10 for 2mm/3mm Cable

- Note:**
- Specifications are for device without connectors; Specifications may change without notice.
  - To add connectors, IL is 0.9dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  - Only guarantee 30mW continuous wave (CW) power thru testing for connectors added.
  - 450~690nm transmits as low order modes.
  - 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.
  - Package size may be different for different optical power and fiber type.

### ORDERING INFORMATION (PN)

Center Wavelength1	Center Wavelength2	Configuration	Mode	Fiber( $\lambda_1$ )	Average Power	Peak Power	Average Power(0.5um)	Package	Fiber (Com&L2)	Fiber Sleeve	Fiber Length	Connector Type
460-460nm	90-1900nm	1-1x2 Type	M- Mux	S- Corr. SM Fiber	03-300mW	01-100W	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	5-5W	5-5kW	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	10-10W	10-10kW	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	20-20kW	Blank for 30mW		Blank for PM155 Fiber	3-3mm Cable	20-2.0m	SC/APC=SC/APC Connector