

## Flyin Singlemode Dual Window Fiber Optic Coupler

Flyin Optronics' Singlemode coupler 1X2 2X2 offer very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 and fiber type 250um bare fiber, 3mm and 900um loose tube fiber are available with very tight uniformity. Singlemode standard coupler and wideband coupler components find extensive application to perform power splitting and monitoring functions in all kinds of optical communication systems.

### Features

- Low Excess Loss
- Various Coupling Ratio
- Compact Size

### Applications

- Long-haul Telecommunications
- CATV Systems & Fiberoptic Sensors
- Local Area Network



### Performance Specifications





Singlemode Dual Window Wideband Couplers		
Grade	P	A
Coupling Ratio (%)	50/50	50/50
Excess Loss (Typical) (dB)	0.1	0.15
Maximum Insertion loss (dB)	3.6	3.8
Uniformity (Max.) (dB)	0.7	1.0
Polarization Sensitivity (dB)	0.15	0.2
Operating Wavelength (nm)	1310 / 1550 ± 40, or custom wavelength	

### Coupling Ratio/insertion Loss Conversion Chart

Coupling Ratio	Insertion Loss	
	Premium	A Grade
40/60	4.7/2.7	5.0/2.9
30/70	6.0/2.0	6.4/2.2
20/80	7.9/1.5	8.5/1.7
10/90	11.3/0.65	12.0/0.8
5/95	14.8/0.4	15.3/0.55
1/99	22.5/0.3	23.0/0.35
Coupling Ratio(%)	1~50	
Directivity (dB)	>55	
Operating Temperature (°C)	-20 - + 85	
Storage Temperature (°C)	-40 - + 85	
Fiber Type	Corning Singlemode SMF-28	

Fiber Pigtail Length (m)	1
Port Configuration	1x2 or 2x2
Package Dimension	Package D,E,F,G

### Package Dimensions & Pigtail Style

Package Dimensions:	
Package D: 3mm x 45mm stainless steel tube	
Package E: 3mm x 54mm stainless steel tube	
Package F: 3mm x 60mm stainless steel tube	
Package G: 10mm x 20mm x 90mm case	
Pigtail Style:	
Package D, E, :	250um bare fiber
Package F:	250um bare fiber or 900um loose tube
Package G:	2mm,3mm cable or 900um loose tube

### Ordering Information

X	X	XX	XX	XXXX	X	X	X	XX
Type	Type	Wavelength	Coupling Ratio	Port	Package	Pigtail Style	Fiber Type	In/Out Connector
S W	P A	35=1310/1550nm	50=50/50 30=30/70 10=10/90 05=5/95 01=1/99 00=Other	0102=1x2 0202=2x2	D=D type E=E type F=F type G=G type	1=Bare Fiber 2=900µm loose tube 3=2mm Cable 4=3mm Cable	0=SMF-28	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC

\*Type: S----Singlemode Standard Coupler  
W----Singlemode Widband Coupler