

Single Mode Dual Window Fiber Optical Coupler

Features:

- ◆ Low Excess Loss
- ◆ Various Coupling Ratio
- ◆ Compact Size



Applications:

- ◆ Long-haul Telecommunications
- ◆ CATV Systems & Fiber Optical Sensors
- ◆ Local Area Network

Performance Specifications:

Single Mode Dual Window Wideband Couplers		
Grade	P	A
Coupling Ratio (%)	50/50	50/50
Excess Loss (Typical) (dB)	0.07	0.1
Maximum Insertion Loss (dB)	3.6	3.8
Uniformity (Max.) (dB)	0.7	1.0
Polarization Sensitivity (dB)	0.10	0.15
Operating Wavelength (nm)	1310 / 1550 ± 40, 1310*1585 ± 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	6.0/1.9	6.4/2.1
20/80	7.9/1.2	8.5/1.4
10/90	11.3/0.5	12.0/0.8
5/95	14.0/0.35	14.6/0.43
1/99	22.5/0.25	23.0/0.35
Coupling Ratio(%)	1~50	
Directivity (dB)	>55	

Operating Temperature (°C)	-20 - + 85
Storage Temperature (°C)	-40 - + 85
Fiber Type	Corning Single Mode SMF-28, DS Fiber, or Flexcore
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 40mm 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

Nomenclature:

X	X	XX	XX	XXXX	X	X	X	XX
Type	Grade	Wavelength	Coupling Ratio	Port	Package	Pigtail Style	Fiber Type	In/Out Connector
S W	S P A	35=1310/1550nm 36=1310/1585nm	50=50/50 30=30/70 10=10/90 05=5/95 01=1/99	0102=1x2 0202=2x2	D=D type E=E type F=F type G=G type	1=Bare Fiber 2=900µm loose tube 3=3mm Cable 4=2mm Cable	0=SMF-28 D=DS Fiber S=Special	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC X=Special

Type:

S---Single Mode Standard Coupler

W---Single Mode Widband Coupler