Single Mode Standard Fiber Optical Coupler/Splitter (FBT Coupler)

Features:

- Low Excess Loss
- Various Coupling Ratio
- Compact Size
- High Stability and Reliability

Applications:

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

Performance Specifications:

Single Standard Couplers		
Grade	P Grade	A Grade
Coupling Ratio (%)	50/50	50/50
Excess Loss (Typical) (dB)	0.1	0.12
Maximum Insertion Loss (dB)	3.4	3.5
Polarization Sensitivity (dB)	0.1	0.15
Operating Wavelength (nm)	850, 980, 1310, 1480, 1550, 1585, or custom wavelength	
Single Wideband Couplers		
Grade	P Grade	A Grade
Coupling Ratio (%)	50/50	50/50
Excess Loss (Typical) (dB)	0.07	0.1
Maximum Insertion Loss (dB)	3.4	3.5
Polarization Sensitivity (dB)	0.1	0.15
Operating Wavelength (nm)	1310±40,1550±40, 1585±40, or custom wavelength	
Coupling Ratio (%)	1~50	
Directivity (dB)	≥55	
Operating Temperature(℃)	-20 ~ +85	
Storage Temperature(℃)	-40 ~ +85	

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Fiber Type	Corning single mode SMF-28,DS fiber or flexcore
Fiber Pigtail Length (m)	1
Port Configuration	1x2 or 2x2
Dimensions (mm)	Package D,E,F,G

Coupling Ratio/insertion Loss Conversion Chart

Coupling Ratio	Insertion Loss	
	P Grade	A Grade
40/60	4.4/2.5	4.6/2.8
30/70	5.6/1.8	6.0/2.0
20/80	7.4/1.1	7.7/1.3
10/90	10.8/0.6	11.6/0.8
5/95	14.2/0.4	14.6/0.5
2/98	18.5/0.2	19.0/0.3
1/99	21.0/0.2	21.5/0.3

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:	3mm cable or 900um loose tube

Nomenclature:

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	S P A	83=830nm 85=850nm 98=980nm 13=1310nm 14=1480nm 15=1550nm 16=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 Jacket 3=3mmCable	0=SMF-28 1=Corning Flexcore 1060 2=Corning Flexcore 780nm D=DS Fiber S=Special	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC

Type:

S----Single mode Standard Coupler

W----Single mode Widband Coupler

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