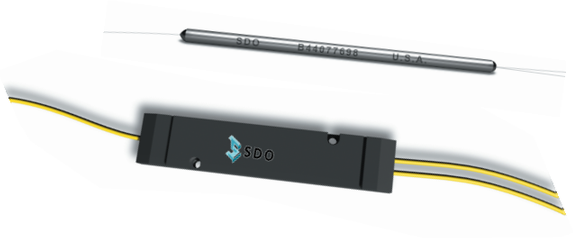
Single Mode Single Window Standard Coupler

The single mode single window standard coupler series are bi-directional multi-port devices that split or combine light with minimal loss, excellent uniformity, and consistent quality and reliability. These cost effective products are suitable for telecommunications, LAN, and CATV applications.

Features

Low Insertion Loss
Low Polarization Dependent Loss
Excellent Environmental Stability
Cost Effective



Specifications [based on 50/50 Coupling Ratio]

Parameter		Unit	Description	
Fiber Type			SMF-28; Flexcor 1060 for 980nm only	
Wavelength		nm	980, 1310, 1480, 1550 & 1600	
Bandwidth		nm	± 10	
Grade			P	A
Insertion Loss	Max.	dB	3.4/3.4	3.6/3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.6	1.0
Polarization Dependent Loss	Max.	dB	0.1	0.15
Temperature Coefficient	Max.	dB/°C	0.002	
Directivity	Min.	dB	50	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Dimensions	B	mm	Ø3.0 x L50	
	L	mm	Ø3.0 x L70	
	R	mm	85 x 17.5 x 7	

[Split Ratio (%) vs. Insertion Loss (dB)]

Split Ratio (%)	IL (Grade P)	IL (Grade A)
50/50	3.4/3.4	3.6/3.6
40/60	4.4/2.5	4.7/2.8
30/70	5.6/1.8	6.0/1.9
20/80	7.4/1.1	7.9/1.3
10/90	10.8/0.6	12.0/0.8
5/95	14.6/0.4	18.4/0.5
2/98	19.0/0.2	20.0/0.3
1/99	21.5/0.2	22.0/0.3

Ordering Guide

	Wavelength	Grade	Port	Fiber Type	Split Ratio	Package	Pigtail Length	Connector
W S C								
W SC=Standard	98=980 13=1310 14=1480 15=1550 16=1600	P=P Grade A=A Grade S=Custom Spec	1=1x2 2=2x2	1=SMF-28 2=Flexcor 1060* (*For 980nm only)	01=01/99 02=02/98 05=05/95 10=10/90 20=20/80 30=30/70 40=40/60 50=50/50	B=250µm bare fiber L=900µm loose tube R=3mm cable	1=1 meter 2=2 meter	0=None 1=fc/pc 2=sc/pc 3=fc/apc 4=sc/apc 5=st S=Special

Single Mode Single Window Broadband Coupler

The single mode single window broadband coupler series are bi-directional multi-port devices that split or combine light with minimal loss, excellent uniformity and consistent quality and reliability over broadband. The products are suitable for telecommunications, LAN and CATV applications. Ultra broadband and ultra low polarization dependent loss models are available upon request.

Features

Low Insertion Loss
Low Polarization Dependent Loss
Excellent Environmental Stability

Specifications [based on 50/50 Coupling Ratio]

Parameter		Unit	Description	
Fiber Type			SMF-28	
Wavelength		nm	1310, 1480 & 1550 & 1600*	
Bandwidth		nm	± 40 (*1600 ± 20 only)	
Grade			P	A
Insertion Loss	Max.	dB	3.4/3.4	3.6/3.6
Excess Loss	Typ.	dB	0.07	0.1
Uniformity	Max.	dB	0.6	1.0
Polarization Dependent Loss	Max.	dB	0.1	0.15
Temperature Coefficient	Max.	dB/°C	0.002	
Directivity	Min.	dB	50	
Operating Temperature		°C	-40 to +85	
Storage Temperature		°C	-50 to +85	
Package Dimensions	B	mm	Ø3.0 x L50	
	L	mm	Ø3.0 x L70	
	R	mm	85 x 17.5 x 7	

[Split Ratio (%) vs. Insertion Loss (dB)]

Split Ratio (%)	IL (Grade P)	IL (Grade A)
50/50	3.4/3.4	3.6/3.6
40/60	4.4/2.5	4.7/2.8
30/70	5.6/1.8	6.0/1.9
20/80	7.4/1.1	7.9/1.3
10/90	10.8/0.6	12.0/0.8
5/95	14.6/0.4	18.4/0.5
2/98	19.0/0.2	20.0/0.3
1/99	21.5/0.2	22.0/0.3

Ordering Guide

	Wavelength	Grade	Port	Fiber Type	Split Ratio	Package	Pigtail Length	Connector
WBC				1				
WBC=Broadband	13=1310 14=1480 15=1550 16=1600	P=P Grade A=A Grade S=Custom Spec	1=1x2 2=2x2	1=SMF-28	01=01/99 02=02/98 05=05/95 10=10/90 20=20/80 30=30/70 40=40/60 50=50/50	B=250µm bare fiber L=900µm loose tube R=3mm cable	1=1 meter 2=2 meter	0=None 1=fc/pc 2=sc/pc 3=fc/apc 4=sc/apc 5=st S=Special