

Single Mode Dual Window Broadband Coupler

The single mode dual window broadband coupler series are bi-directional multi-port devices that split or combine light in two wavelength regions with a broad operating bandwidth. The unique dual window coupler with broadband has minimal loss, excellent uniformity and consistent quality and reliability. The products are especially designed for telecommunications, LAN, and CATV applications.

Features

- Dual Window with Broadband
- Low Insertion Loss
- Low Polarization Dependent Loss
- Excellent Environmental Stability



Specifications [based on 50/50 Coupling Ratio]

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

Split Ratio (%)	IL (Grade P)	IL (Grade A)
50/50	3.6/3.6	3.8/3.8
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	11.3/0.6	12.7/0.8
5/95	15.2/0.4	18.9/0.5

Ordering Guide

Wavelength		Grade	Port	Fiber Type	Split Ratio	Package	Pigtail Length	Connector		
W	T	C	3	5				1		
WTC=Dual Window		35=1310/1550	P=P Grade A=A Grade S=C custom Spec	1=1x2 2=2x2	1=SMF-28	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 Fused Fiber Coupler

The single mode single fused coupler series are highly stable for multi-port optical signal splitting. With their extremely compact size, the products maintain consistent minimal loss, excellent uniformity, quality, and reliability. The products are especially designed for telecommunications, LAN, and CATV applications. An ultra polarization dependent loss model is available upon request.

Features

- Low Insertion Loss
- Low Polarization Dependent Loss
- Excellent Environmental Stability



Specifications

Parameter		Unit	Description					
Fiber Type			SMF-28					
Wavelength		nm	1310, 1480, 1550 or 1600					
Bandwidth		nm	± 10					
Port Configuration (Equal Split)			1 x 3		3 x 3		1 x 4	
Grade			P	A	P	A	P	A
Insertion Loss	Max.	dB	5.3	5.7	5.5	5.8	6.8	7.6
Excess loss	Typ.	dB	0.15	0.2	0.15	0.2	0.3	0.5
Uniformity	Max.	dB	0.8	1.5	1.0	1.4	1.0	1.6
Polarization Dependent Loss	Max.	dB	0.15		0.2		0.3	
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	Ø 3.0 x L54				Ø 3.6 x L54	
	L	mm	Ø 3.0 x L70				Ø 3.6 x L70	
	R	mm	90 x 17.5 x 7				100 x 26 x 7	

Ordering Guide

Wavelength		Grade	Port	Fiber Type	Customer Code	Package	Pigtail Length	Connector	
<div>W</div>	<div>M</div>	<div>C</div>	<div></div>	<div></div>	<div></div> <div></div>	<div></div>	<div></div>	<div></div>	
W MC=Single Fused		13=1310 14=1480 15=1550 16=1600	P=P Grade A=A Grade S=Custom Spec	1=1x3 3=3x3 4=1x4	1=SMF-28 2=Flexcor 1060* (*For 980nm only)	00=Default	B=250µm bare fiber L=900µm loose tube R=3mm cable	1=1 meter 2=2 meter	0=N one 1=fc/pc 2=sc/pc 3=fc/apc 4=sc/apc 5=st S=Special