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



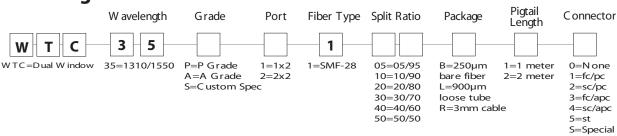
Specifications [based on 50/50 Coupling Ratio]

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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



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						
W avelength		nm	1310, 1480, 1550 or 1600						
Bandwidth		nm	± 10						
Port Configuration (Equal Split)			1 x 3 3 x 3			x 3	1 x 4		
Grade			Р	Α	Р	А	Р	A	
Insertion Loss	Max.	dB	5.3	5.7	5.5	5.8	6.8	7.6	
Excess loss	Тур.	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).3		
Temperature Coefficient	Max.	dB/°C	0.002						
Directivity	Min.	dB	50						
O perating Temperature °C			-40 to +85						
Storage Temperature		°C		-50 to +85					
Package Dimensions	В	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

