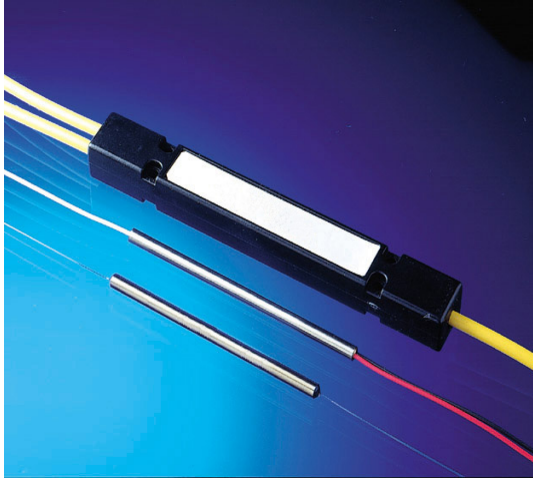


# Single Mode Single Window Wideband Coupler (SWBC) Single Mode Dual Window Wideband Coupler (DWBC)



## Features

- Low Insertion Loss
- Comply with RoHS
- Comply with Telcordia GR-1209, GR-1221

## Applications

- Telecommunications
- FTTH, CATV , LAN

## SPECIFICATIONS (based on 50/50)

PARAMETERS	SWBC		DWBC	
	P	A	P	A
Grade	P	A	P	A
Operating Wavelength (nm)	1550±40 or 1310±40		1550±40 and 1310±40	
Insertion Loss	≤3.4dB	≤3.6dB	≤3.6dB	≤3.9dB
Uniformity	≤0.6dB	≤1.0dB	≤0.7dB	≤1.1dB
Thermal Stability (-40~85°C)	±0.1dB	±0.1dB	±0.1dB	±0.1dB
Return Loss	≥55dB	≥55dB	≥55dB	≥55dB
Polarization Dependent Loss	≤0.1dB	≤0.15dB	≤0.1dB	≤0.15dB
Package Dimensions (mm)	250um fiber:3.0(OD)x54 900um loose tube:3.0(OD)x60(L) Ruggedized:98(L)x14(W)x8.5(H)			
Operating Temperature	-40~85°C			

### COUPLING RATIO/IL CONVERSION CHART

COUPLING RATIO	SWBC	DWBC
50/50	3.4dB	3.6dB
40/60	4.4/2.5dB	4.7/2.7dB
30/70	5.6/1.8dB	6.0/1.9dB
20/80	7.4/1.1dB	7.9/1.2dB
10/90	10.8/0.6dB	11.3/0.6dB
5/95	14.6/0.45dB	15.2/0.45dB
1/99	21.5/0.25dB	22.5/0.3dB

### COUPLING RATIO/PDL CONVERSION CHART

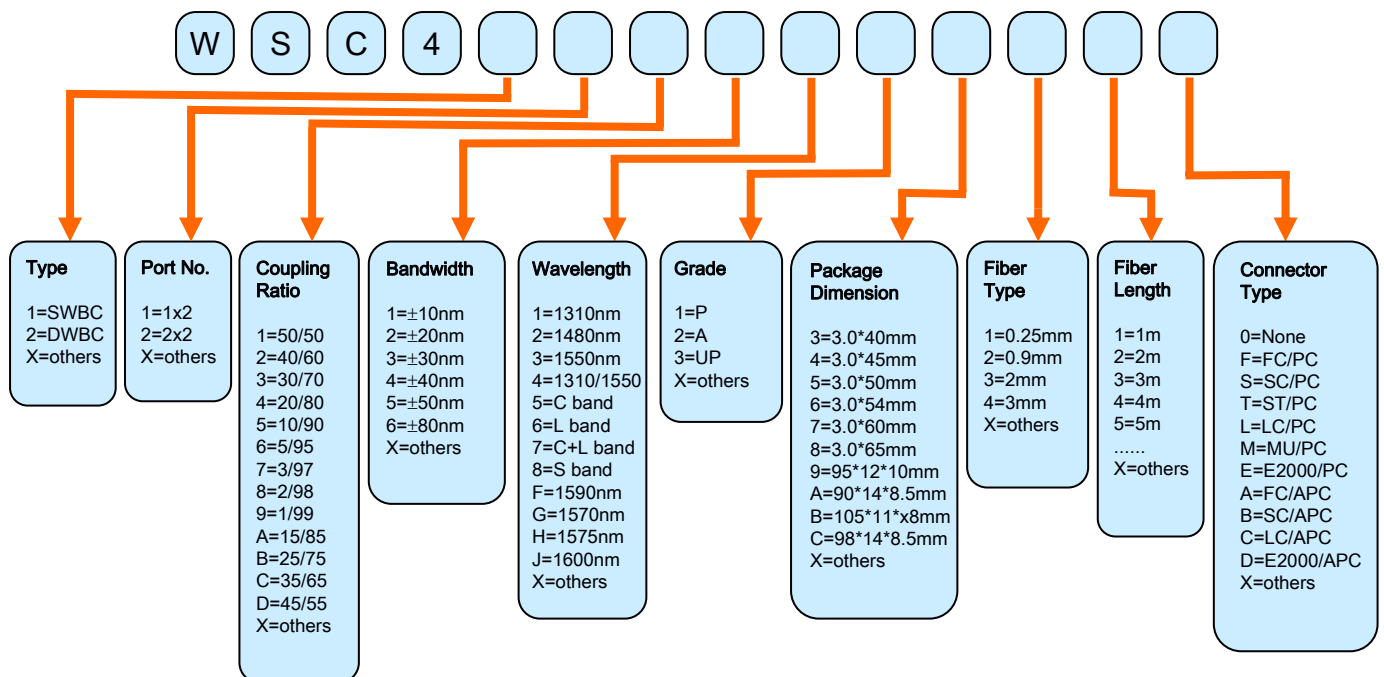
COUPLING RATIO	SWBC	DWBC
50/50	0.1dB	0.1dB
40/60	0.1dB	0.1dB
30/70	0.1dB	0.1dB
20/80	0.1dB	0.1dB
10/90	0.15dB	0.15dB
5/95	0.15dB	0.15dB
1/99	0.15dB	0.15dB

# Ultra Low PDL Single Window Wideband Coupler

## Compact Size Wideband Coupler

### SPECIFICATIONS (based on 50/50)

PARAMETERS	Ultra Low PDL	Compact Size	
	SWBC	SWBC	DWBC
Window	UP	P	P
Grade	UP	P	P
Operating Wavelength (nm)	1550±40	1310±40 or 1550±40	1310/1550±40
Insertion Loss	≤3.5dB	≤3.5dB	≤3.6dB
Uniformity	≤0.6dB	≤0.6dB	≤0.8dB
Thermal Stability (-40~85°C)	±0.1dB	±0.1dB	±0.1dB
Return Loss	≥55dB	≥55dB	≥55dB
PDL	≤0.05dB	≤0.15dB	≤0.15dB
Packaging Type	6,7,8,9,A,B,C	3,4,5	
Operating Temperature	-40~85°C		



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