

1981 Adams Avenue      **Sales Support**  
 San Leandro, CA 94577    **510.567.8503**  
 510.567.8700            **510.567.8307**  
 510.567.8701 [fax]      **510.567.8506 [fax]**  
                                  **800.567.1688 [Toll Free]**

**Performance Specifications**

**Single Mode Single Window Couplers  
 Wide Band 1x2,2x2,Bandwidth±40nm**

**Specification**

Parameter	A Grade	B Grade
Operation Wavelength (nm)	1310(±40),1550(±40)	
Typical Excess Loss(dB)	0.1	0.3
Uniformity	≤0.6	≤1
Polarization Stability (dB)	±0.1	±0.15
Directivity (dB)	>55	
Operation Temperature (°C)	-40 to +70	
Temperature Coefficient (dB/°C)	<0.002	
Storage Temperature (°C)	-50 to +85	
Package Dimensions (mm)	Coated fiber : 3.0(φ)x54(L) Loose tube : 3.5.(φ)x65(L) PVC : 95(L)x11(W)x9.5(H)	

\*\* The specifications listed above do not include the effect of connector loss. Typical connector is 0.2dB Maximum connector loss is

o.35dB for SC connector.

\*\* Specification values for devices with unbalanced split ratios are available upon request.

\*\* -20 °C~70°C for PVC cable

# Single Mode Single Window Couplers

## Wide Band Star and Tree, Bandwidth $\pm 40$ nm

### Specification

Parameter	Nx4 (N=1,2,4)		Nx8 (N=1,2,8)		Nx16 (N=1,2,16)	
Operation Wavelength (nm)	1310( $\pm 40$ ), 1550( $\pm 40$ )					
Grade	A	B	A	B	A	B
Max. Insertion Loss(dB)	7.0	7.4	10.5	11.5	14.3	15.3
Uniformity	$\leq 0.8$	$\leq 1.2$	$\leq 1.2$	$\leq 3.0$	$\leq 2.4$	$\leq 3.8$
Temperature Coefficient (dB/ $^{\circ}$ C)	$< 0.003$		$< 0.004$		$< 0.006$	
Directivity (dB)	$> 55$					
Operation Temperature ( $^{\circ}$ C)	-40 to +70					
Storage Temperature ( $^{\circ}$ C)	-50 to +85					
Package Dimensions (mm)	PVC (LxWxH)	100x80x9.5		140x90x9.5		
	BOX (LxWxH)	482x256x44		482x256x44		482x256x H:44(2X16) H:88(16X16)

\*\* The specifications listed above do not include the effect of connector loss. Typical connector is 0.2dB Maximum connector loss is 0.35dB for SC connector.

\*\* Specification values for devices with unbalanced split ratios are available upon request.

\*\* -20  $^{\circ}$ C~70 $^{\circ}$ C for PVC cable

# Single Mode Two Window Couplers

## Wide Band 1x2,2x2, Bandwidth±40nm

### Specification

Parameter	A Grade	B Grade
Operation Wavelength (nm)	1310 and 1550	
Typical Excess Loss(dB)	0.1	0.3
Uniformity	≤0.8	≤1.2
Polarization Stability (dB)	±0.15	±0.2
Directivity (dB)	>55	
Operation Temperature (°C)	-40 to +70	
Temperature Coefficient (dB/°C)	<0.002	
Storage Temperature (°C)	-50 to +85	
Package Dimensions (mm)	Coated fiber : 3.0(φ)x54(L) Loose tube : 3.5.(φ)x65(L) PVC : 95(L)x11(W)x9.5(H)	

\*\* The specifications listed above do not include the effect of connector loss. Typical connector is 0.2dB Maximum connector loss is 0.35dB for SC connector.

\*\* Specification values for devices with unbalanced split ratios are available upon request.

\*\* -20 °C~70°C for PVC cable

# Single Mode Two Window Couplers Wide Band Star and Tree, Bandwidth±40nm

## Specification

		Nx4 (N=1,2,4)		Nx8 (N=1,2,8)		Nx16 (N=1,2,16)	
Operation Wavelength (nm)		1310(±40),1550(±40)					
Grade		A	B	A	B	A	B
Max. Insertion Loss(dB)		7.2	7.6	10.7	11.7	14.5	15.5
Uniformity		≤1.0	≤1.4	≤1.6	≤3.2	≤2.4	≤4.0
Temperature Coefficient (dB/°C)		<0.003		<0.004		<0.006	
Directivity (dB)		>55					
Operation Temperature (°C)		-40 to +70					
Storage Temperature (°C)		-50 to +85					
Package Dimensions (mm)	PVC (LxWxH)	100x80x9.5		140x90x9.5			
	BOX (LxWxH)	482x256x44		482x256x44		482x256x H:44(2X16) H:88(16X16)	

\*\* The specifications listed above do not include the effect of connector loss. Typical connector is 0.2dB Maximum connector loss is 0.35dB for SC connector.

\*\* Specification values for devices with unbalanced split ratios are available upon request.

\*\* -20 °C~70°C for PVC cable

## Ordering Information:

Example: SW1L2210A167

Code	Ports	S	W	- 2					Code	In/Out Connector
1	1x2								0	None
2	2x2								1	SC
3	1x3								2	ST
4	3x3								3	FC
5	1x4								6	FC/APC
6	2x4								7	SC/APC
7	4x4								8	FC/UPC
8	1x8									
9	2x8									
0	Other type									
A	8x8								X	None
B	1x16								1	1 m
C	2x16								2	2m
D	16x16								A	0.5m
									0	Other

  

Code	Package
C	Coated Fiber
L	Loose Tube
P	PVC/ABS
B	Mental box
0	Other Type

  

Code	Wavelength
2	1550nm
4	1480nm
5	1310nm
7	980nm
S	Dual Windows

  

Fiber Type	
Corning SMF-28	

  

Code	Coupling ratio
01	01/99
10	10/90
20	20/80
30	30/70
40	40/60
50	50/50
xx	none

  

Code	Grade
A	A grade
B	B grade
C	C grade
2	2 stage
3	3 stage

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