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**Performance Specifications**

**Single Mode Standard Couplers 1x2,2x2  
 Narrow Band ±10nm**

**Feature:**

- Compact size
- Low insertion loss
- Low PDL
- Excellent uniformity
- High directivity
- Bi-directional
- Environmentally stable and reliable
- Coupling ratio 1% to 99%

**Application:**

- CATV
- Telecommunications
- Subscriber Loop
- Fiber-to-the-home
- Test equipment
- Local Area Networks(LAN)
- Optical fiber sensors
- Source distribution

**Specification:**

Parameter	A Grade	B Grade
Operation Wavelength (nm)	980, 1310, 1480 or 1550	
Uniformity	≤0.6	≤0.9
Polarization Stability (dB)	±0.1	±0.15
Directivity (dB)	>55	
Reflectance (dB)	>55	
Operation Temperature (°C)	-40 to +70	
Temperature Coefficient (dB/°C)	<0.001(Typ.),<0.002(Max.)	
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)	

-20 °C~70°C for PVC cable

The information set forth in this document reflects our best knowledge at the time of issue. The document is subject to changes pursuant to new developments and findings, and a similar reservation applies to the properties of the products described. We undertake no liability for results obtained by usage of our products and information.

# Single Mode Standard Couplers 1x3,3x3 Narrow Band $\pm 10\text{nm}$

## Feature:

- Share resource optical networks
- Low insertion loss
- Low PDL
- Good uniformity
- Environmentally stable and reliable
- Coherent detection

## Application:

- CATV
- Telecommunications
- Subscriber Loop
- Fiber-to-the-home
- Fiber gyroscopes

## Specification

Parameter	A Grade		B Grade	
Operation Wavelength (nm)	1310,1550			
Configuration	1x3	3x3	1x3	3x3
Max. Insertion Loss(dB)	5.4	5.5	5.6	5.9
Uniformity	$\leq 0.8$	$\leq 1.5$	$\leq 1.2$	$\leq 1.8$
Polarization Stability (dB)	$\pm 0.1$	$\pm 0.15$	$\pm 0.2$	
Directivity (dB)	$>55$		$>55$	
Operation Temperature ( $^{\circ}\text{C}$ )	$-40$ to $+70$			
Temperature Coefficient (dB/ $^{\circ}\text{C}$ )	$<0.001$ (Typ.), $<0.002$ (Max.)			
Storage Temperature ( $^{\circ}\text{C}$ )	$-50$ to $+85$			
Package Dimensions (mm)	Coated Fiber : $3.0(\varphi)\times 54(\text{L})$ Loose tube : $3.5.(\varphi)\times 65(\text{L})$ PVC : $95(\text{L})\times 11(\text{W})\times 9.5(\text{H})$			

$-20\text{ }^{\circ}\text{C}\sim 70\text{ }^{\circ}\text{C}$  for PVC cable

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# Single Mode Star and Tree Couplers Narrow Band

## Feature:

- Low insertion loss
- Excellent uniformity
- Wide variety of configurations
- Multi-channel splitting and combining
- Environmentally stable and reliable

## Application:

- CATV
- Telecommunications
- Subscriber Loop
- Fiber-to-the-home

## Specification:

Configuration	Nx4 (N=1,2,4)		1x6		Nx8 (n=1,2,8)		Nx16 (n=1,2,16)	
Operation Wavelength (nm)	980,1310,1480,1550							
Grade	A	B	A	B	A	B	A	B
Max. Insertion Loss(dB)	6.8	7.2	8.7	9.5	10.0	11.0	13.0	14.0
Uniformity	≤0.8	≤1.2	≤1.0	≤2.0	≤1.2	≤3.0	≤2.4	≤3.8
Polarization Stability (dB)	±0.1		±0.15				±0.2	
Temp. Coeff. (dB/°C)	<0.003		<0.004				<0.005	
Directivity (dB)	>55							
Operation Temp. (°C)	-40 to +70							
Storage Temp. (°C)	-50 to +85							
Package Dimensions (mm)	PVC	L:100 W:80 H:9.5		L:140 W:90 H:9.5				
	BOX	L:482 W:256 H:44		L:482 W:256 H:44		L:482 W:256 H:44(2X16) H:88(16X16)		

-20 °C~70°C for PVC cable

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## Ordering Information:

Example: SW1L2210A167

Code	Ports
1	1x2
2	2x2
3	1x3
4	3x3
5	1x4
6	2x4
7	4x4
8	1x8
9	2x8
0	Other type
A	8x8
B	1x16
C	2x16
D	16x16

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

Code	In/Out Connector
0	None
1	SC
2	ST
3	FC
6	FC/APC
7	SC/APC
8	FC/UPC

Code	Fiber length
X	None
1	1 m
2	2m
A	0.5m
0	Other

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