

Single Mode Coupler

Descriptions

SM Coupler is fully compliant with Telcordia GR-1209/1221 reliability qualification requirement

Features

- ▶ Low Insertion Loss, Good Uniformity
- ▶ Wide Operating Wavelength
- ▶ Excellent environmental stability and reliability



Applications

- ▶ Communication System
- ▶ Fiber laser and Fiber Sensor
- ▶ FTTX Systems
- ▶ LAN, WAN and Metro Networks
- ▶ Analog/Digital Passive Optical Networks
- ▶ CATV Networks
- ▶ Fiber Optic Instruments

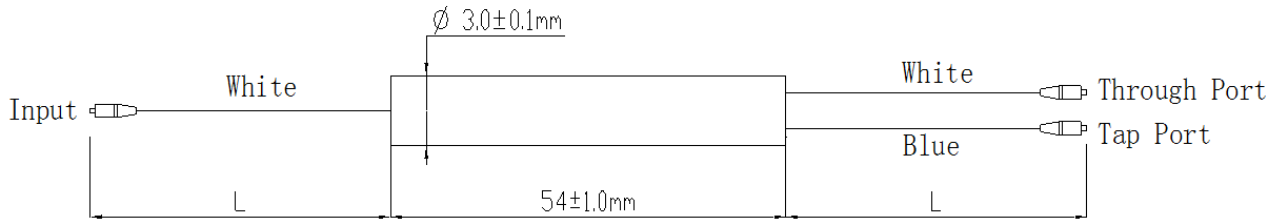
Specifications

Configuration		Unit	1x2 / 2x2				
Type	Single Mode Standard Coupler (SSC)		Single Mode Wide Band Single Window Coupler (SWSC)	All Band Coupler (ABC)	Single Mode Dual Window Coupler (SDWC)	Single Mode Three Window Coupler (STWC)	
Operating Wavelength	nm	980 or 1310 or 1550	980 or 1310 or 1550	1260-1620	1310/1550	1310/1490/1550	
Operating Bandwidth	nm	±20	±40	--	±40	±40	
Max Insertion Loss	50/50	dB	3.35/3.35	3.40/3.40	3.80/3.80	3.60/3.60	3.60/3.60
	45/55	dB	3.85/2.95	3.85/3.00	4.45/3.45	4.20/3.20	4.20/3.20
	40/60	dB	4.40/2.55	4.40/2.60	5.10/3.10	4.70/2.70	4.70/2.70
	33/67	dB	5.00/2.20	5.00/2.25	6.00/2.55	5.70/2.20	5.70/2.20
	30/70	dB	5.70/1.85	5.70/1.90	6.40/2.30	6.00/1.90	6.00/1.90
	25/75	dB	6.55/1.55	6.65/1.55	7.25/2.95	7.00/1.70	7.00/1.70
	20/80	dB	7.55/1.25	7.60/1.25	8.30/1.60	7.90/1.30	7.90/1.30
	15/85	dB	8.55/0.95	9.05/0.95	9.65/1.35	9.50/1.00	9.50/1.00
	10/90	dB	10.80/0.65	11.00/0.65	11.50/1.05	9.20-11.00/0.75	9.20-11.00/0.75
	5/95	dB	14.00/0.40	14.20/0.40	14.60/0.80	12.05-14.15/0.40	12.05-14.15/0.40
	3/97	dB	16.30/0.30	16.70/0.30	17.00/0.75	14.10-16.50/0.35	14.10-16.50/0.35
	2/98	dB	18.00/0.25	18.50/0.25	18.80/0.70	15.75-18.45/0.30	15.75-18.45/0.30
1/99	dB	21.50/0.20	21.50/0.20	22.50/0.65	18.60-21.60/0.25	18.60-21.60/0.25	
PDL	dB	≤0.10			≤0.15		

Return Loss	dB	≥50.00
Directivity	dB	≥55.00
Operating Temperature	Deg.	-5-75
Storage Temperature	Deg.	-40-85
Fiber Length	m	1.00±0.10
Fiber Type		Clear Curve® XB
Pigtail Tube	um	250,900,2000,3000, or others
Package Dimensions	mm	3×4, 53×54, 90×16×10, or others

- Note: 1. Above specifications are for device without connector.
 2. For devices with connectors, 0.3dB higher for IL.

Package Dimensions



Ordering Information

SSC - A - B - C - D - E - F - G - H - I - J		
SSC:	Single Mode Standard Coupler	
SWSC:	Single Mode Wide Band Single Window Coupler	
ABC:	All Band Coupler	
SDWC:	Single Mode Dual Window Coupler	
STWC:	Single Mode Three Window Coupler	
A	Wavelength	980, 1310, 1550, 1260~1620, 1310/1550, 1310/1490/1550, Other
B	Configuration	1×2, 2×2, etc
C	Coupling Ratio	50/50, 45/55, 30/70.... 1/99, etc
D	Pigtail Type	0.25=0.25mm bare fiber, 0.9=0.9mm loose tube, 2.0= 2.0mm loose tube, 3.0=3.0mm loose tube, etc
E	Fiber Type	ClearCurve® XB, ofs-16, ofs-20, HI 1060, HI 1060Flex, others
G	Connector Type	N=None, LC/UPC, LC/APC, SC/UPC, SC/APC, FC/UPC, FC/APC, etc
I	Package Size	3x40mm, 3x45mm, 3x54mm, 90x16x10mm, etc
H	Fiber length	003=0.3m, 005=0.5m, 010=1.0m, 100=10m, etc
For example: SDWC-1310/1550-1x2-50-0.9-1-LC/APC*3-3x54-010		