

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



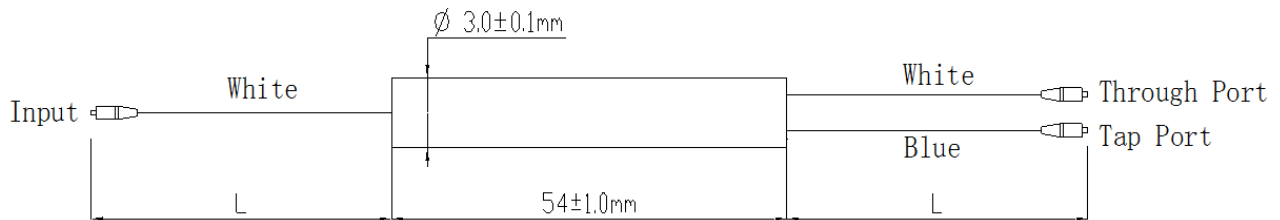
Specifications

Configuration		Unit	1×2 / 2×2				
Type			Single Mode Standard Coupler (SSC)	Single Mode Wide Band Single Window Coupler (SWBC)	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	3×45, 3×54, 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		
SSC: Single Mode Standard Coupler SWBC: 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
F	Connector Type	N=None, LC/UPC, LC/APC, SC/UPC, SC/APC, FC/UPC, FC/APC, etc
G	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		