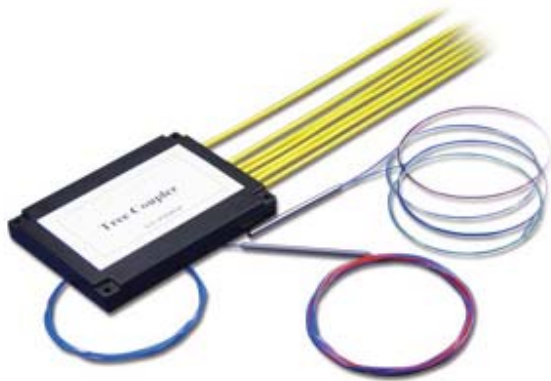


Coupler-Single Mode

1×N 2×N Coupler SM



Features

- ◆ Low excess loss
- ◆ Low PDL
- ◆ Wide Operating Temperature:
From -40°C to 85°C
- ◆ High Reliability and Stability
- ◆ Passed Telcordia GR-1221-CORE, and 85°C,85%RH test up to 1500 hours

Applications

- ◆ Optical communication systems
- ◆ CATV
- ◆ Local Area Networks
- ◆ Testing instruments

Compliance

- ◆ Telcordia GR-1209-CORE
- ◆ Telcordia GR-1221-CORE
- ◆ RoHS

Datasheet

Technical Specification

Type		--	1 × 2 Singlemode Coupler(SMC)							
Wavelength		(nm)	1310 , 1550 , 1310&1550							
Bandwidth		(nm)	±20 , ±40							
Coupling Ratio		--	50/50		40/60		20/80		10/90	
Grade		--	P	S	P	S	P	S	P	S
Insertion Loss	MAX	(dB)	3.4	3.6	4.4/2.6	4.6/2.8	7.5/1.2	8.0/1.3	11.0/0.65	12.0/0.8
Uniformity	MAX	(dB)	0.5	0.7	/	/	/	/	/	/
PDL	MAX	(dB)	0.15	0.2	0.2	0.25	0.2	0.25	0.2	0.3
Directivity		(dB)	≥50							
Operating Temperature		(°C)	-20 ~ 75							
Type		--	1 × 2 Tap Coupler(WTC)							
Wavelength		(nm)	1550 or on Request							
Bandwidth		(nm)	±20							
Coupling Ratio		--	1/99		2/98		5/95			
Grade		--	P	S	P	S	P	S		
Insertion Loss	MAX	(dB)	21.5/0.22	20.0/0.3	18.5/0.25	19.5/0.35	14.0/0.40	14.5/0.50		
PDL	MAX	(dB)	0.25/0.10	0.30/0.15	0.25/0.10	0.30/0.15	0.25/0.10	0.30/0.15		
Directivity		(dB)	≥50							
Operating Temperature		(°C)	-20 ~ 75							
Type		--	Three-Windows Coupler(TWC)							
Wavelength		(nm)	1310&1490&1550							
Bandwidth		(nm)	1310±40 , 1490±10 , 1550±40							
Coupling Ratio		--	50/50		40/60		20/80		10/90	
Grade		--	P	S	P	S	P	S	P	S
Insertion Loss	MAX	(dB)	3.7	4	4.7/2.7	5.0/3.0	7.8/1.4	8.1/1.7	11.2/0.9	11.6/1.2
Uniformity	MAX	(dB)	0.5	0.7	/	/	/	/	/	/
PDL	MAX	(dB)	0.15	0.2	0.2	0.25	0.2	0.25	0.2	0.3
Return Loss		(dB)	≥50							
Operating Temperature		(°C)	-20 ~ 75							
Type		--	1 × N Monolithic Singlemode Coupler(MSC)							
Wavelength		(nm)	1310 , 1550 or on Request							
Bandwidth		(nm)	±20							
Coupling Ratio		--	1 × 3				1 × 4			
Grade		--	P	S	P	S				
Insertion Loss	MAX	(dB)	5.4		5.7		7		7.4	
Uniformity	MAX	(dB)	0.8		1.2		1.2		1.5	
PDL	MAX	(dB)	0.2		0.3		0.2		0.3	
Return Loss		(dB)	≥50							
Operating Temperature		(°C)	-20 ~ 75							

Notes: * The above specification is without connector.
 * Other specifications can be made on customer request.

Datasheet

Mechanical Dimensions

Configuration		1×2 or 2×2	1×3,3×3,1×4
Dimensions(Φ ×L) (mm)	250um bare fiber	Φ 3.0×45	Φ 3.0×54
	900um loose tube	Φ 3.0×54	Φ 4.0×70
	900um/2mm/3mm loose tube	90×20×10	/
Fiber lead length		1 meter, others on request	

Ordering Information

SMC - P - 1×2 - 13/15 - 10/90 - FC/APC - 1 - G652D - Φ 3×60
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

Item	Unit	Parameter
① Type	--	SMC, WTC, TWC, MSC
② Grade	--	P=Premium, A=standard
③ Configuration	--	1×2, 2×2, 1×3, 1×4 and so on
④ Operating Wavelength	(nm)	1310, 1550, 13/15(1310&1550), 13/14/15 or on Request
⑤ Coupling Ratio	--	01/99, 05/95 ... 50/50
⑥ Input & Output Connector	--	0=None, FC/APC, FC/UPC or on Request
⑦ Pigtail Type	--	0= Φ 250 μ m, 1= Φ 900 μ m, 2= Φ 2mm, 3= Φ 3mm, 4=Other
⑧ Fiber Type	--	G652D=Corning SMF-28e, 4=Other
⑨ Package	(mm)	Φ 3×54, Φ 3×60, 90×20×10, 100×80×10 or as Requirement

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