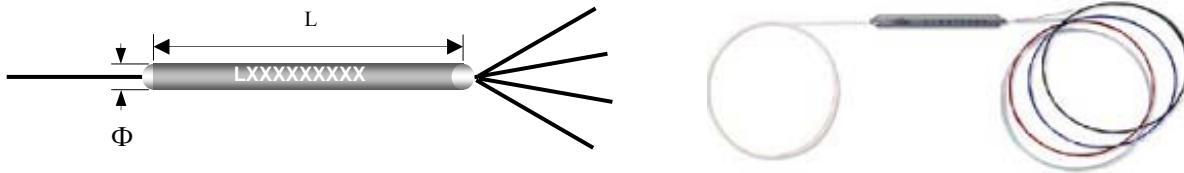


1×N (N×N) Monolithic Single Mode Coupler

Description

1×3, 3×3, 1×4 monolithic couplers have the compact package size, low insertion loss, and high reliability performance. These couplers were designed for optical modules, the fiber sensors and fiber testing instruments.

Mechanical Dimension



Specifications

Parameter	Type	1×3 SSC		3×3 SSC		1×3 WBC		3×3 WBC		1×3 DWC	
		P	A	P	A	P	A	P	A	P	A
Operating wavelength (nm)		1310 or 1550				1310 or 1550				1310 and 1550	
Operating bandwidth (nm)		±15				±40				±40	
Grade		P	A	P	A	P	A	P	A	P	A
Typical excess loss (dB)		0.1	0.15	0.1	0.15	0.1	0.15	0.1	0.15	0.1	0.15
Insertion loss (dB)		≤5.4	≤5.7	≤5.6	≤5.8	≤5.6	≤6.0	≤5.8	≤6.2	≤5.8	≤6.2
PDL (dB)		≤0.2	≤0.25	≤0.25	≤0.3	≤0.2	≤0.25	≤0.25	≤0.3	≤0.25	≤0.3
Uniformity (dB)		≤0.8	≤1.2	≤1.0	≤1.4	≤1.0	≤1.4	≤1.3	≤1.6	≤1.2	≤1.5
Directivity (dB)		≥55									
Operating temperature (°C)		-40 ~ +85									

Parameter	Type	1×4 SSC				1×4 WBC				1×4 DWC				1×4 TWC			
		Normal Size		Mini Size		Normal Size		Mini Size		Normal Size		Mini Size		Normal Size		Mini Size	
Operating wavelength (nm)		1310 or 1550, others on request								1310 and 1550				1310,1490 and 1550			
Operating bandwidth (nm)		±15				±40				±40				1310±40,1490±10 and 1550±40			
Grade		P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A
Typical excess loss (dB)		0.15	0.25	0.15	0.25	0.2	0.3	0.2	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4
Insertion loss (dB)		≤7.0	≤7.4	≤7.2	≤7.5	≤7.1	≤7.4	≤7.2	≤7.5	≤7.2	≤7.5	≤7.3	≤7.7	≤7.2	≤7.5	≤7.3	≤7.7
PDL (dB)		≤0.2	≤0.25	≤0.25	≤0.35	≤0.2	≤0.25	≤0.25	≤0.35	≤0.25	≤0.3	≤0.25	≤0.35	≤0.25	≤0.3	≤0.25	≤0.35
Uniformity (dB)		≤1.0	≤1.4	≤1.2	≤1.5	≤1.2	≤1.6	≤1.4	≤1.8	≤1.4	≤1.8	≤1.5	≤2.0	≤1.4	≤1.8	≤1.5	≤2.0
Directivity (dB)		≥55															
Operating temperature (°C)		-40 ~ +85															

*The above specification is without connector.

**Other specifications can be made on customer request.

Package Information

Configuration			1×3 or 3×3	1×4
Dimensions (Φ×L)(mm)	250μm bare fiber	Normal size	Φ3.0×54	
		Mini size	Φ3.0×35	
900μm loose tube			Φ4.0×60	Φ4.0×65
Fiber lead length			1 meter, others on request	

*Other package dimensions can be made on customer request.

Ordering Information

XXX-X-XXX-XXX-XX/XX-X-X-XX/XXX-XX*XX

