

# 1x2 or 2x2 Single Mode Standard Couplers

## Product Features

- Low insertion loss
- High return loss
- High stability and reliability

## Product Applications

- Fiber communication on system test Test
- Optical passive component test
- Optics lab use

## Specifications

Parameter	Unit	Value			
Operating Wavelength	nm	1310 or 1550, others on request			
Bandwidth	nm	± 20			
Excess Loss	dB	≤ 0.10			
Coupling Ratio	%	50/50	40/60	30/70	20/80
Typ. Insertion Loss	dB	3.05	4.1/2.3	5.3/1.6	7.1/1.0
Max. Insertion Loss	dB	3.3	4.4/2.5	5.6/1.8	7.4/1.2
Polarization Dependent Loss	dB	≤ 0.10			
Thermal Stability	dB/°C	≤ 0.002			
Return Loss	dB	≥ 50			
Optical power (CW)	W	≥ 1			
Directivity (dB)	1X2	dB	≥ 50, ≥ 60 on request		
	2X2	dB	≥ 65		

\* The above specification is without connector.

\*\* Other specifications can be made on customer request.

## Ordering Information

Configuration	1 × 2 or 2 × 2		
Lead Type	0: 250um bare fiber	1: 900um loose tube	2: 3mm loose cable (or 2mm)
Package Dimensions (mm)	A: φ3.0 × 40	A: φ3.0 × 56 B: 90 × 16 × 9	B: 90 × 16 × 9 C: 106 × 79 × 10
Operating Temperature (°C)	-40 to +85	-20 to +70	-20 to +70

Ordering Information						
SC	Configuration	Central Wavelength	Coupling Ratio (%)	Pigtail Type	Fiber Length	Connector
	1X2 2X2	1310nm 1550nm Specify	1:99 20:80 40:60 50:50 Specify	250um bare fiber 900um loose tube Specify	0.5m 1m 1.5m 2m Specify	N=None FC/APC FC/UPC SC/APC SC/UPC LC/UPC Specify