



Single Mode Coupler (SMC Series)

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The Single Mode Coupler offers very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range. These components find extensive applications to perform power splitting and monitoring functions in all kinds of optical communication systems.

Specifications

Parameter	Unit	Value				
Operating Wavelength	nm	1030 ± 10				
Coupling Ratio	%	01/99	50/50	05/95	10/90	20/80
Max. Insertion Loss	dB	21.9/0.25	3.5/3.5	14.7/0.5	11/0.7	7.7/1.3
Max. PDL (Tap/Through Port)	dB	0.15				
Thermal Stability	dB/°C	≤ 0.002 over -5 °C to +70 °C				
Min. Return Loss	dB	50				
Directivity 1 × 2	dB	55				
2 × 2	dB	60				
Fiber Type		HI 1060 Flex fiber or OFS 980 fiber				
Package Dimensions	mm	250 μm bare fiber, dia3.0 × 40 mm 900 μm loose tube, dia3.0 × 56 mm 3 mm cable, 90 × 16 × 9 mm				
Operating Temperature	°C	-5 to +70				
Storage Temperature	°C	-40 to +85				

*IL is 0.5 dB higher, RL is 5 dB lower for each connector added.

Ordering Information

SMC-①-②②-③③-④-⑤-⑥-⑦

①: Configuration

1 - 1 × 2

2 - 2 × 2

②②: Wavelength

03 - 1030 nm

③③: Coupling Ratio

01 - 01/99 SS - Specify

05 - 05/95

10 - 10/90

20 - 20/80

50 - 50/50

④: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

⑤: Fiber Type

B - 250 μm bare fiber

L - 900 μm loose tube

C - 3 mm cable

S - Specify

⑥: Fiber Length

1 - 1 m

S - Specify

⑦: Fiber Option

H - HI 1060 Flex fiber

O - OFS 980 fiber