



Single Mode Standard Coupler (SMC series)

The SMC Single Mode Standard Couplers offer very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very tight uniformity. These components find extensive application to perform power splitting and monitoring functions in all kinds of optical communication systems.



Specifications

Parameters	Unit	Values			
Grade		P			
Operating Wavelength	nm	1310 or 1550			
Bandwidth	nm	± 20			
Coupling Ratio	%	01/99	05/95	10/90	50/50
Max. Insertion Loss	dB	21.5/0.2	14.6/0.4	10.8/0.6	3.4
Max. PDL(Tap/Through Port)	dB	0.3/0.05	0.3/0.05	0.25/0.05	0.05
Max Excess Loss	dB	0.15			
Thermal Stability	dB/°C	≤ 0.002dB/°C over -5 °C to +70 °C			
Min Directivity	1X2	50 dB			
	2X2	65 dB			
Fiber Type		SMF-28			
Package Dimensions		250um bare fiber and dia. 3.0 mm X 40 mm			
		900um loose tube and dia. 3.5 mm X 66 mm			
		3mm loose cable and 90mm X 16mm X 9mm			
Operating Temperature	°C	-5 to + 70			
Storage Temperature	°C	-40 to + 85			

*Above specifications are for device without connector

*For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

Ordering Information

SMC-①-②②-③③-④-⑤-⑥-⑦-⑧

① :Port

1 - 1X2

2 - 2X2

④:Grade

P - P grade

S - Specify

⑥:Fiber Type

B - 250um bare fiber

L - 900um loose tube

C - 3mm loose cable

②② : Wavelength

31 - 1310nm

55 - 1550nm

SS - Specify

⑤:Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

5 - LC/UPC

6 - ST/UPC

N - None

S - Specify

⑦:Fiber Length

1 - 1m

S - Specify

③③ : Coupling Ratio

01 - 01/99

05 - 05/95

10 - 10/90

50 - 50/50

SS - Specify

⑧ : Fiber Option

F - SMF-28 Fiber

S - Specify