



Singlemode Standard Coupler (SMC Series)

Spec Review No.: SR25124A Date: Dec. 12, 2022

Description

The SMC Singlemode 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 good uniformity in a wide wavelength range of both 1310 nm and 1550 nm windows. These components find extensively applications to perform power splitting and monitoring functions in all kinds of optical communication systems.

Key Features

- High Power
- High Reliability

Applications

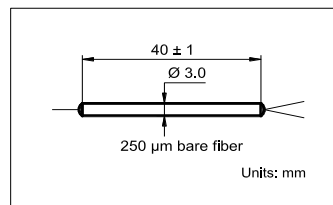
- EDFAs Systems
- Raman Amplifiers
- Vehicle Application

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1550
Operating Wavelength	nm	$\lambda_c \pm 20$
Coupling Ratio	%	50/50
Max. Insertion Loss	dB	3.4
Max. PDL (Tap/Through Port)	dB	0.10
Max. Excess Loss	dB	0.10
Thermal Stability	dB/°C	≤ 0.002
Min. Return Loss	dB	50
Directivity	dB	55
Max. Average Optical Power	W	3
Max. Peak Power for ns Pulse	kW	10
Operating Temperature	°C	- 40 to + 105
Storage Temperature	°C	- 40 to + 125

¹IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

Package Dimensions



Ordering Information

SMC-①-②②-③③-④-⑤-⑥

①: Configuration

1 - 1 x 2

②②: Wavelength

55 - 1550 nm

③③: Coupling Ratio

50 - 50/50

④: Connector Type

N - None

⑤: Fiber Type

B - 250 µm bare fiber

S - Specify

⑥: Fiber Length

1 - 1.0 m

S - Specify