



Polarization Maintaining Fused Coupler Module (PMCM Series)

Spec Review No.: SR14434C

Description

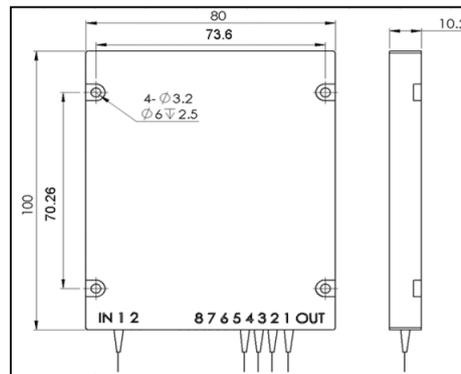
The Single Mode Broadband Coupler offers very low insertion loss, low polarization dependence and excellent environmental stability. Accurate coupling ratio from 50/50 to 1/99 are available with very good uniformity in a wide wavelength range. These components find extensive applications to perform power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

Specifications

| Parameter | Unit | Value |
|--------------------------------------|-------|----------------------------------|
| Center Wavelength (λ_c) | nm | 1550 |
| Operating Wavelength | nm | $\lambda_c \pm 10$ |
| Configuration | - | 1 × 4 or 2 × 4 |
| Max. Insertion Loss, λ_c | dB | 6.8 |
| Min. Extinction Ratio, λ_c | dB | 18 |
| Min. Return Loss | dB | 50 |
| Min. Directivity | dB | 50 |
| Max. Optical Power (Continuous Wave) | W | 2 |
| Fiber Type | - | PM 1550 Panda Fiber |
| Thermal Stability | dB/°C | ≤ 0.05 over -5 °C to +70 °C |
| Operating Temperature | °C | -5 to +70 |
| Storage Temperature | °C | -40 to +85 |
| Package Dimensions (L) × (W) × (H) | mm | ABS box: 100 × 80 × 10 |

*IL is 0.3 dB higher, RL is 5 dB lower and ER is 2dB lower for each connector added. Connector key is aligned to slow axis.
Optical power will be only 1 W with connector added.

Package Dimensions



Ordering Information

PMCM-①①①①-②②-③③-④-⑤-⑥

①①①①: Configuration

0104 - 1 × 4

0204 - 2 × 4

④: Connector Type

1 - FC/UPC

2 - FC/APC

3 - SC/UPC

4 - SC/APC

N - None

S - Specify

②②: Wavelength

55 - 1550 nm

⑤: Fiber Type

B - 250 μ m Bare Fiber

L - 900 μ m Loose Tube

2 - 2 mm Cable

3 - 3 mm Cable

③③: Coupling Ratio

BA - Balance

⑥: Fiber Length

H - 0.5 m

S - Specify



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