



Ultra Low Ratio Tap Coupler (GK-LTC Series)

● Description

The Ultra Low Ratio Tap Coupler splits a very small amount of light from a signal path to a tap port. Low tap ratios such as 0.1%, 0.01% or 0.001% enable the monitoring photodetector to operate without damage or saturation. It is suitable for very high optical power, its main application is in the monitoring of optical sources such as fiber lasers.

● Key Features

- Low Insertion Loss
- High Power
- High Reliability

● Applications

EDFA System

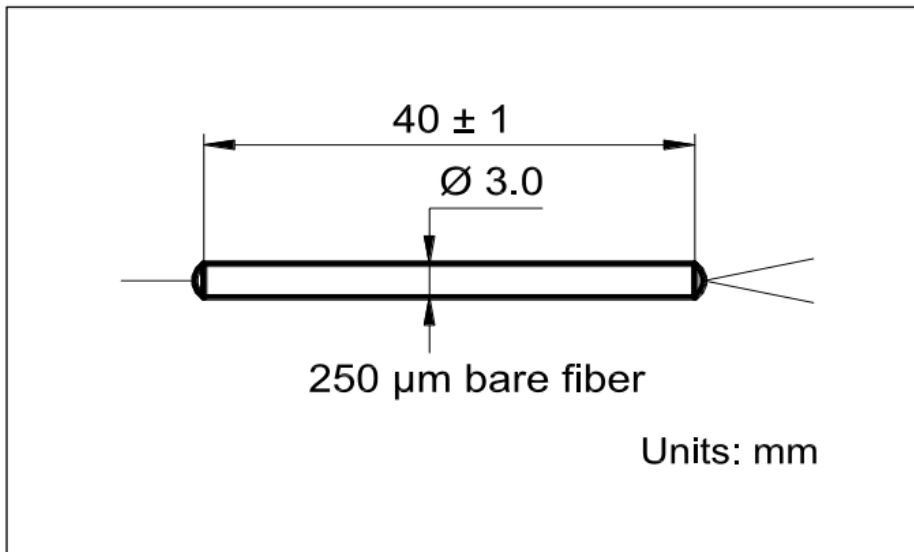
DWDM System

Vehicle Application

● Specifications

| Parameter | Unit | Value |
|-----------------------------------|-------|--------------------|
| Center Wavelength (λ_c) | nm | 1550 |
| Operating Wavelength | nm | $\lambda_c \pm 10$ |
| Coupling Ratio | % | 0.1 |
| Tap Insertion Loss | dB | 30 ± 3 |
| Max. Signal Insertion Loss | dB | 0.1 |
| Thermal Stability | dB/°C | ≤ 0.002 |
| Min. Return Loss | dB | 50 |
| Max. Average Optical Power Max. | W | 3 |
| Peak Power for ns Pulse | kW | 10 |
| Operating Temperature | °C | - 40 to + 105 |
| Storage Temperature | °C | - 40 to + 125 |
| Fiber Type | - | Corning SMF-28 |

● Package Dimensions



● Ordering Information

GK-LTC-①-②-③-④-⑤-⑥

①: Configuration

1 - 1 × 2

②: Wavelength

55 - 1550 nm

③: Coupling Ratio

3 - 0.1% (30 dB)

④: Connector Type

N - None

⑤: Fiber Type

B - Corning SMF-28

S - Specify

⑥: Fiber Length

1 - 1.0 m

S - Specify