



Ultra Low Ratio Tap Coupler (GK-LTC Series)

● Description

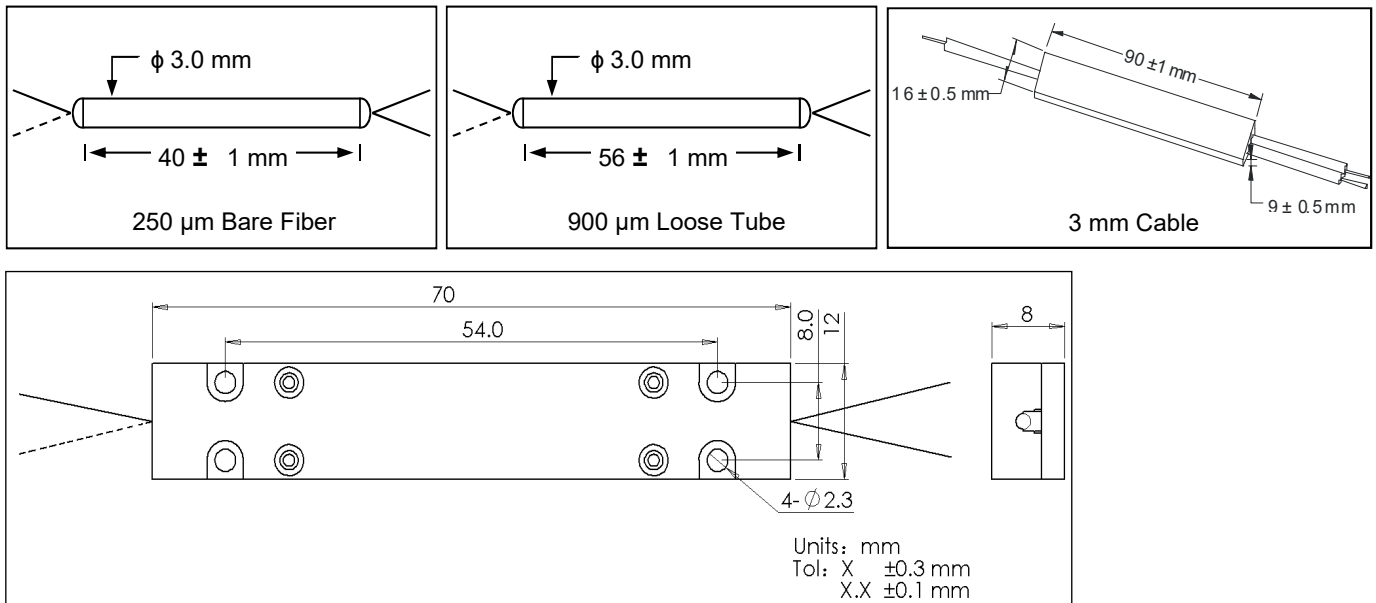
The Ultra Low Ratio Tap Coupler splits a very small amount of light from a signal path to a tap port. Low tap ratios such as 0.1%, 0.01% or 0.001% enable the monitoring photodetector to operate without damage or saturation. It is suitable for very high optical power, its main application is in the monitoring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

● Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064, 1550 or specified
Operating Wavelength	nm	$\lambda_c \pm 10$
Coupling Ratio	%	0.1 0.01 0.001
Tap Insertion Loss	dB	30 $\pm$ 3 40 $\pm$ 4 50 $\pm$ 5
Max. Signal Insertion Loss	dB	0.1
Thermal Stability	dB/°C	≤ 0.002
Min. Return Loss	dB	55
Max. Optical Power (Continuous Wave)	W	5
Operating Temperature	°C	- 40 to +75
Storage Temperature	°C	- 40 to +85
Fiber Type	-	Singlemode Fiber

¹Test at central wavelength only. IL is 0.5 dB higher, RL is 5 dB lower for each connector added.

● Package Dimensions



● Ordering Information

GK-LTC-①-②-③-④-⑤-⑥-⑦-⑧

①: Configuration

1 - 1 $\times$ 2
2 - 2 $\times$ 2

②: Wavelength

06 - 1064 nm
55 - 1550 nm
SS - Specify

③: Coupling Ratio

3 - 0.1% (30dB)
4 - 0.01% (40dB)
5 - 0.001% (50dB)
S - Specify

④: Connector Type

1 - FC/UPC 4 - SC/APC
2 - FC/APC N - None
3 - SC/UPC S - Specify

⑤: Fiber Jacke

B - 250 μ m Bare Fiber
L - 900 μ m Loose Tube
3 - 3 mm Cable
S - Specify

⑥: Fiber Length

1 - 1.0 m
S - Specify

⑦: Fiber Option

4 - Corning HI 1060
6 - Corning SMF-28
S - Specify

⑧: Handling Power

1 - 10 W
2 - 20 W
3 - 30 W