Advanced Fiber Resources (Hong Kong), Ltd.

Ultra Low Ratio Tap Coupler (LTC Series)

Spec Review No.: SR25121A Date: Dec 12, 2022

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

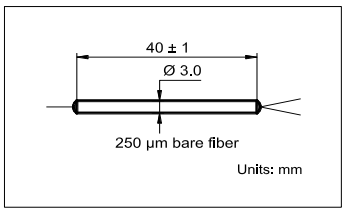
Applications

- EDFA System
- DWDM System
- Vehicle Application

Specifications

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

Package Dimensions



Ordering Information

LTC-①-②②-③-④-⑤-⑥

①: Configuration
1 - 1 × 2

②②: 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