LEAD Fiber Optics PRODUCT CATALOGUE

FIBER OPTIC ATTENUATOR
Fixed in-line type

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Fixed in-line type Attenuator



Fixed in line optical attenuator is used in optical systems where the optical power from a source is too high for the test equipment in use. it introduces an in-line fixed loss that will reduce the source power to an acceptable detection level. The attenuation level should be stable with temperature and wavelength for a stable reliable system.

LFO provides a wide range of singlemode and multimode Fixed in-line optical Attenuators. They are used directly on the fiber optic connectors and provide a fixed level of optical attenuation. Single mode fiber based Fixed in-line attenuators with single window (1310nm or 1550nm) or dual window (1310nm&1550nm). Multimode fiber based Fixed in-line attenuators with single window (850nm or 1310nm). FC and SC fiber connector types with PC or APC polish are available, as well as ST and LC types of attenuators.

LFO Fixed in-line Attenuator Series



Fixed in-line Fiber Optic Attenuator

The Fixed in-line fiber optic attenuators are a compact passive fiber optical component that provides accurate attenuation. They are base on Fused Biconical Taper (FBT) technology. Our Fixed in-line attenuators series come with your choice of different connector terminations, including FC, SC, ST, or other type of connectors specified. With the patented mode filter design, they can enhance mode stability dramatically and be readily panel mounted without any dummy fiber.

Fixed in-line type Attenuator

Features

- Optical performance 100% factory tested
- Environmentally stable
- Easy installation
- Readily panel mountable
- Compact packaging

Applications

- Telecommunication networks
- LAN
- CATV
- Fiber Optics Sensors
- Fiber To The Home
- Multi-channel Subscriber Loop
- Optical transmission system



Specifications <Single Mode>

ITEM	Standard	Wideband	Dual Window
Operation Wavelength, nm	1310nm or 1550nm	1310nm or 1550nm	1310nm and 1550nm
Bandwidth, nm	± 10	± 40	± 40
Attenuator Range, dB	1~30		
Attenuation Accuracy, dB	± 0.3 (for 1~10dB);	±0.5(for 11~20dB);	± 10%(for 21~25dB)
Back Reflection, dB	≤-50		
Operation Temperature, °C	-40°ℂ~85°ℂ		
Storage temperature, °C	-55°℃~85°℃		
Connector Type	ST,FC,FC/APC,SC,SC/APC,LC,MU		

Specifications <Multi-Mode>

ITEM	Standard		
Operation Wavelength, nm	850nm or 1310nm		
Bandwidth, nm	± 10		
Attenuator Range, dB	1~30		
Attenuation Accuracy, dB	± 0.5 (for 1~5dB); $\pm 10\%$ (for 6~20dB)		
Operation Temperature, °C	-40℃~85℃		
Storage temperature,°C	-55°C ~85°C		
Connector Type	ST,FC,SC,LC		

Fixed in-line type Attenuator Ordering information

XX XX

AN-FI

Connector #1 #2

XX/XX

11-ST

21-FC/PC

22-FC/APC

31-SC/PC

32-SC/APC

41-LC/PC

51-MU/PC 00-None

XX-Others

Wavelength and Bandwidth

31-1310 nm

55-1550 nm

35-1310/1550 nm

34-1310 ± 40 nm

54-1550 ± 40 nm

30-1300 nm

85-850 nm

XX-Others

Cable type

01-TE with coated fiber(250um)

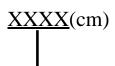
11-TA with loose tube cable (900um)

21-TA with PVC cable(2.0mm)

31-TA with PVC cable(3.0mm)

XX-Others

XX



Pigtail length (for each end)

4 digit number, please specify in cm

Attenuation accuracy

S- Super grade (±0.3dB)

H- High grade (±0.5dB) A- Average grade (±10%)

Attenuation value

01-1dB

2dB 02-

03-3dB

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28-28dB

29-29dB

30dB 30-

Fiber type

1-9/125um(Single Mode)

2-50/125um(Multi Mode)

3-62.5/125um(Multi Mode)

X-Others

DYSFO

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