

LEAD Fiber Optics PRODUCT CATALOGUE

FIXED OPTICAL ATTENUATOR Fixed plug-in type

Fixed plug in type Attenuator

Features

- Environmentally stable
- Easy installation
- Custom designed specifications
- Low return Loss
- Readily panel mountable
- Compact

Applications

- Telecommunication
- Local area network
- CATV
- Fiber optic sensors
- Testing instruments
- Fiber to the home
- Multi-Channel subscriber loop
- Optical transmission system



Specifications

ITEM		Wideband Fixed Plug in type Attenuator (Doping type)	
Mode Type		Single Mode	
Operation Wavelength, nm		1310nm or 1550nm	
Bandwidth, nm		±40	
Attenuation Accuracy (typical, including connector)	ITEM	H grade	A grade
	1~5dB	±1.0	±1.5
	6~10dB	±1.5	±2.0
	11~15dB	±2.0	±2.5
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature		-40°C ~ 75°C	
Storage temperature		-50°C ~ 85°C	
Connector Type		ST,FC,FC/APC,SC,SC/APC,LC,MU	

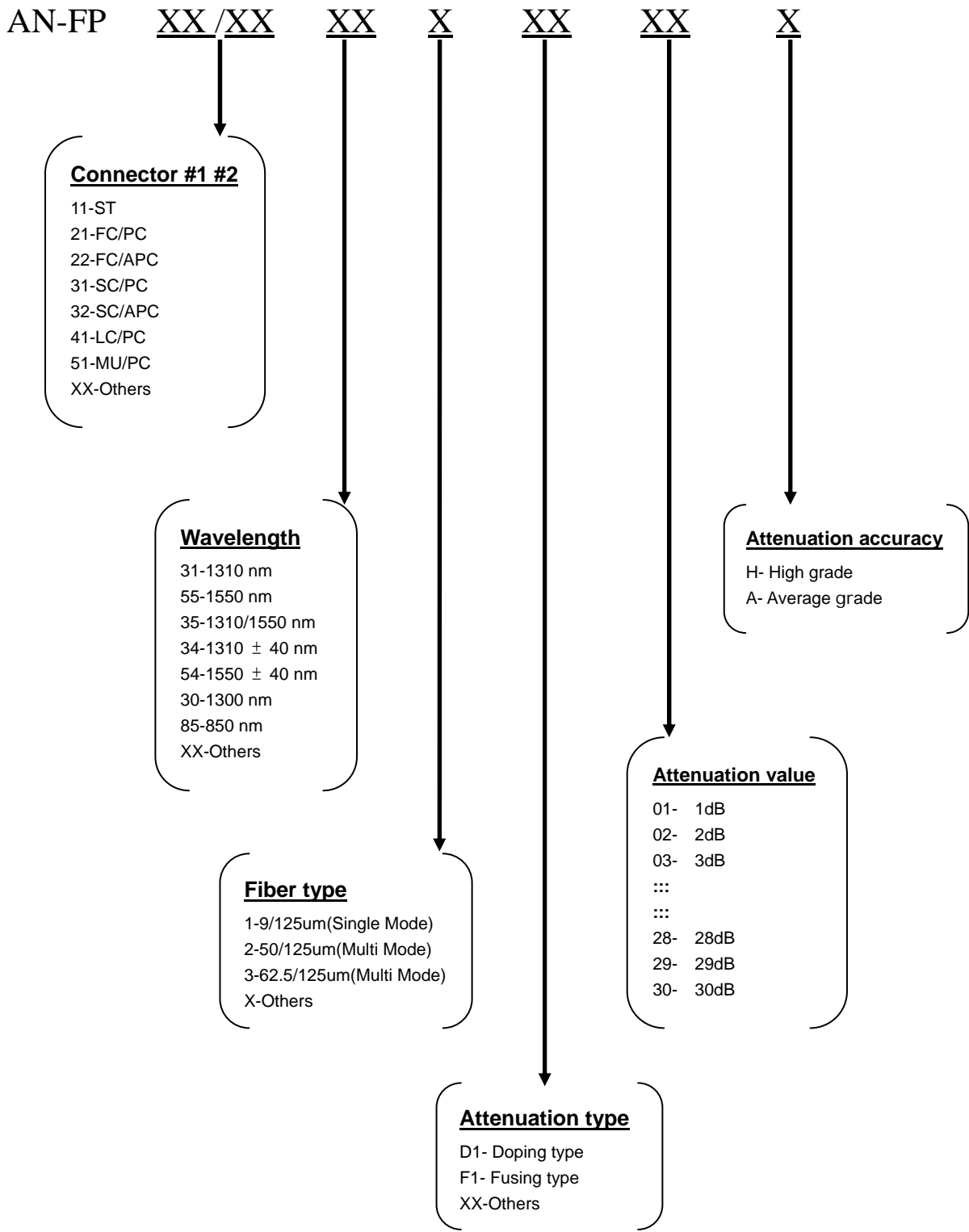
Specifications

ITEM		Dual window Fixed Plug in Type Attenuator (Doping Type)	
Mode Type		Single Mode	
Operation Wavelength, nm		1310nm and 1550nm	
Bandwidth, nm		±40	
Attenuation Accuracy (typical, including connector)	ITEM	H grade	A grade
	1~5dB	±1.5	±2.0
	6~10dB	±2.0	±2.5
	11~15dB	±2.5	±3.0
	16~20dB	±3.0	±3.5
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature		-40°C ~75°C	
Storage temperature		-50°C ~85°C	
Connector Type		ST,FC,FC/APC,SC,SC/APC,LC,MU	

Specifications

ITEM		Standard Fixed Plug in Type Attenuator (Fusing Type)	
Mode Type		Multi Mode	
Operation Wavelength, nm		850 or 1310	
Bandwidth, nm		±10	
Attenuation, dB		1~20 or otherwise specified	
Attenuation Accuracy (typical, including connector)	1~5dB	±1.0	
	6~10dB	±1.5	
	11~20dB	±2.0	
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature		-40°C ~75°C	
Storage temperature		-50°C ~85°C	
Connector Type		ST,FC,SC	

Fixed Plug in Fiber Optic Attenuator Ordering information



LFO Fixed Plug in Fiber Optic Attenuator Series



ST Plug in type Attenuator

ST fiber optic attenuators use a 2.5mm diameter ceramic ferrule with PC end-face and a ceramic sleeve for precise alignment. It was designed to operate in the 1310 / 1550 nm windows for singlemode and 850 nm windows for multimode.



FC Plug in type Attenuator

The FC fiber optic attenuators use a 2.5mm diameter ceramic ferrule with either PC or APC end-face and a ceramic sleeve for precise alignment. It was designed to operate in the 1310 / 1550 nm windows and 850 nm windows for multimode.



SC Plug in type Attenuator

The SC fiber optic attenuators use a 2.5mm diameter ceramic ferrule with either PC or APC end-face and a ceramic sleeve for precise alignment. It was designed to operate in the 1310 / 1550 nm windows and 850 nm windows for multimode.



LC Plug in type Attenuator

The LC fiber optic attenuators use a 1.25mm diameter ceramic ferrule with either PC or APC end-face and a ceramic sleeve for precise alignment. It was designed to operate in the 1310 / 1550 nm windows and 850 nm windows for multimode.



MU Plug in type Attenuator

The MU fiber optic attenuators use a 1.25mm diameter ceramic ferrule with PC end-face and a ceramic sleeve for precise alignment. It was designed to operate in the 1310 / 1550 nm windows.

ST Fiber Optic Attenuator

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- Compact

Applications

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- Testing instruments
- Fiber to the home
- Multi-Channel subscriber loop
- Optical transmission system



Specifications

ITEM		Wideband Fixed Plug in Type Attenuator (Doping type)	
Mode Type		Single Mode	
Operation Wavelength, nm		1310nm or 1550nm	
Bandwidth, nm		±40	
Attenuation Accuracy (typical, including connector)	ITEM	H grade	A grade
	1~5dB	±1.0	±1.5
	6~10dB	±1.5	±2.0
	11~15dB	±2.0	±2.5
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature, °C		-40°C ~ 75°C	
Storage temperature, °C		-50°C ~ 85°C	

Specifications

ITEM		Dual window Fixed Plug in Type Attenuator (Doping Type)	
Mode Type		Single Mode	
Operation Wavelength, nm		1310nm and 1550nm	
Bandwidth, nm		±40	
Attenuation Accuracy (typical, including connector)	ITEM	H grade	A grade
	1~5dB	±1.5	±2.0
	6~10dB	±2.0	±2.5
	11~15dB	±2.5	±3.0
	16~20dB	±3.0	±3.5
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature, °C		-40°C ~ 75°C	
Storage temperature, °C		-50°C ~ 85°C	

Specifications

ITEM		Standard Fixed Plug in Type Attenuator (Fusing Type)	
Mode Type		Multi Mode	
Operation Wavelength, nm		850 or 1310	
Bandwidth, nm		±10	
Attenuation, dB		1~20 or otherwise specified	
Attenuation Accuracy (typical, including connector)	1~5dB	±1.0	
	6~10dB	±1.5	
	11~20dB	±2.0	
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature, °C		-40°C ~ 75°C	
Storage temperature, °C		-50°C ~ 85°C	

FC Fiber Optic Attenuator

Features

- Environmentally stable
- Easy installation
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- Readily panel mountable
- Compact

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Specifications

ITEM		Wideband Fixed Plug in Type Attenuator (Doping Type)	
Mode Type		Single Mode	
Operation Wavelength, nm		1310nm or 1550nm	
Bandwidth, nm		±40	
Attenuation Accuracy (typical, including connector)	ITEM	H grade	A grade
	1~5dB	±1.0	±1.5
	6~10dB	±1.5	±2.0
	11~15dB	±2.0	±2.5
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature, °C		-40°C ~75°C	
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ITEM		Dual window Fixed Plug in Type Attenuator (Doping Type)	
Mode Type		Single Mode	
Operation Wavelength, nm		1310 nm and 1550 nm	
Bandwidth, nm		±40	
Attenuation Accuracy (typical, including connector)	ITEM	H grade	A grade
	1~5dB	±1.5	±2.0
	6~10dB	±2.0	±2.5
	11~15dB	±2.5	±3.0
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature, °C		-40°C ~ 75°C	
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Specifications

ITEM		Standard Fixed Plug in Type Attenuator (Fusing Type)	
Mode Type		Multi Mode	
Operation Wavelength, nm		850 nm or 1310 nm	
Bandwidth, nm		±10	
Attenuation, dB		1~20 dB or otherwise specified	
Attenuation Accuracy (typical, including connector)	1~5dB	±1.0	
	6~10dB	±1.5	
	11~20dB	±2.0	
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature, °C		-40°C ~ 75°C	
Storage temperature, °C		-50°C ~ 85°C	

SC Fiber Optic Attenuator

Features

- Environmentally stable
- Easy installation
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Specifications

ITEM		Wideband Fixed Plug in Type Attenuator (Doping Type)	
Mode Type		Single Mode	
Operation Wavelength, nm		1310nm or 1550nm	
Bandwidth, nm		±40	
Attenuation Accuracy (typical, including connector)	ITEM	H grade	A grade
	1~5dB	±1.0	±1.5
	6~10dB	±1.5	±2.0
	11~15dB	±2.0	±2.5
	16~20dB	±2.0	±2.5
Back Reflection, dB	PC	≤ -40	
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Operation Temperature, °C		-40°C ~ 75°C	
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	1~5dB	±1.5	±2.0
	6~10dB	±2.0	±2.5
	11~15dB	±2.5	±3.0
	16~20dB	±3.0	±3.5
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature, °C		-40°C ~75°C	
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Mode Type		Multi Mode	
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Attenuation, dB		1~20 or otherwise specified	
Attenuation Accuracy (typical, including connector)	1~5dB	±1.0	
	6~10dB	±1.5	
	11~20dB	±2.0	
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature, °C		-40°C ~75°C	
Storage temperature, °C		-50°C ~85°C	

LC Fiber Optic Attenuator

Features

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- Compact

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Specifications

ITEM		Wideband Fixed Plug in Type Attenuator (Doping Type)	
Mode Type		Single Mode	
Operation Wavelength, nm		1310nm or 1550nm	
Bandwidth, nm		±40	
Attenuation Accuracy (typical, including connector)	ITEM	H grade	A grade
	1~5dB	±1.0	±1.5
	6~10dB	±1.5	±2.0
	11~15dB	±2.0	±2.5
Back Reflection, dB	PC	≤-40	
	APC	≤-60	
Operation Temperature, °C		-40°C ~75°C	
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Specifications

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	1~5dB	±1.5	±2.0
	6~10dB	±2.0	±2.5
	11~15dB	±2.5	±3.0
	16~20dB	±3.0	±3.5
Back Reflection, dB	PC	≤ -40	
	APC	≤ -60	
Operation Temperature, °C		-40°C ~ 75°C	
Storage temperature, °C		-50°C ~ 85°C	
Connector Type		ST,FC,FC/APC,SC,SC/APC,LC,MU	

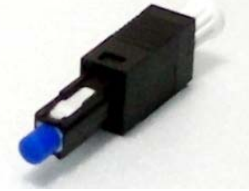
MU Fiber Optic Attenuator

Features

- Environmentally stable
- Easy installation
- Custom designed specifications
- Low return Loss
- Readily panel mountable
- Compact

Applications

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- Local area network
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Specifications

ITEM		Wideband Fixed Plug in Type Attenuator (Doping Type)	
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	1~5dB	±1.0	±1.5
	6~10dB	±1.5	±2.0
	11~15dB	±2.0	±2.5
Back Reflection, dB	PC	≤-40	
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Operation Temperature, °C		-40°C ~75°C	
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Back Reflection, dB	PC	≤-40	
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