

Optical Attenuator: Single Mode, Fiber Connector



These terminators allow one to attenuate an optical signal easily by plugging an FC/PC terminated fiber directly into the attenuator. The front of the attenuator is a male FC/PC connector, allowing the attenuators to be plugged directly into FC receptacles or adapters. These single mode attenuators use polarization-insensitive, doped fiber to achieve the specified attenuation.

Features

- **Operating Wavelength:** 1240 - 1620 nm
- **Return Loss:** >55 dB
- **Max. Power Capability:** 1 W
- **Operating Temperature:** -40 to 85 °C
- **PDL:** <0.1 dB

Fiber Connector Optical Attenuators

ITEM#	\$	£	€	RMB	DESCRIPTION
FA05T	\$ 20.80	£ 14.50	€ 18,50	¥ 175.70	Fixed Optical Attenuator, 5 ± 0.5 dB (31.6%T)
FA10T	\$ 20.80	£ 14.50	€ 18,50	¥ 175.70	Fixed Optical Attenuator, 10 ± 0.7 dB (10% T)
FA15T	\$ 20.80	£ 14.50	€ 18,50	¥ 175.70	Fixed Optical Attenuator, 15 ± 1.0 dB (3.2% T)
FA25T	\$ 20.80	£ 14.50	€ 18,50	¥ 175.70	Fixed Optical Attenuator, 25 ± 1.3 dB (0.35% T)

Optical Attenuators: Inline

Inline optical isolators are ideal for balancing signal strengths in fiber circuits and for attenuating an optical signal to test the dynamic range of a measurement system. These inline isolators include SMF-28e fiber with a loose 900 µm jacket, and they are offered with and without FC/PC connectors. Other terminators available upon request; please contact your local Thorlabs office for a quotation.



Features

- Low Insertion Loss
- Low Return Loss
- Compact Design
- Environmentally Stable

Applications

- Fiber Optic Sensors
- Instrumentation Testing
- Telecommunications

Specifications

- **Operating Wavelength:** 1310 ± 40 nm and 1550 ± 40 nm
- **Attenuation:** 10 ± 0.5 dB Typical
- **Back Reflection:** <-50 dB
- **Operating Temperature:** -40 to 85 °C
- **Storage Temperature:** -55 to 85 °C

Inline Fiber Optic Attenuators

ITEM#	\$	£	€	RMB	CONNECTORS	DESCRIPTION	%T
FOA10	\$ 76.50	£ 53.10	€ 68,00	¥ 646.00	None	Fiber Optic Inline Attenuator, 10 dB	10%
FOA10-FC	\$ 93.80	£ 65.10	€ 83,30	¥ 792.10	FC/PC	Fiber Optic Inline Attenuator, 10 dB	10%

Optical Attenuator: Inline Variable

This manually-adjustable, inline variable optical attenuator (VOA) is used for precisely balancing the signal strengths in fiber circuits and also for balancing an optical signal when evaluating the dynamic range of the measurement system. The attenuation is adjusted using a screw on the side of the attenuator housing. These in-line VOAs include SMF-28e fiber with a 3 mm jacket, and they are offered terminated with FC/APC connectors, FC/PC connectors, or non-terminated. These attenuators are available with other connector styles; please contact your local Thorlabs office for a quotation.



Specifications

- **Operating Wavelength:** 1200 to 1600 nm
- **Fiber:** SMF-28e or Equivalent
- **Attenuation Range:** 1.5 - 50 dB
- **Attenuation Resolution:** ≤0.1 dB
- **Back Reflection (Return Loss):** >55 dB
- **Polarization Sensitivity:** ≤0.2 dB
- **Optical Power:** ≤300 mW
- **Thermal Stability:** ≤0.03 dB/°C
- **Operating Temperature:** 0 to 60 °C
- **Dimension:** 38 mm x 30 mm x 19 mm (1.50" x 1.18" x 0.75")

Inline Variable Optic Attenuators

ITEM#	\$	£	€	RMB	DESCRIPTION
VOA50	\$ 225.90	£ 156.60	€ 200,60	¥ 1,907.60	Inline Variable Optical Attenuator, 50 dB
VOA50-FC	\$ 261.90	£ 181.60	€ 232,60	¥ 2,211.50	Inline Variable Optical Attenuator, 50 dB, FC/PC
VOA50-APC	\$ 270.20	£ 187.40	€ 239,90	¥ 2,281.60	Inline Variable Optical Attenuator, 50 dB, FC/APC