

Fixed optical attenuator FC-APC



AI Overview

A fixed optical attenuator with an FC-APC connector is a passive device that reduces optical signal power in fiber optic systems while maintaining signal integrity. Overview A fixed optical attenuator is designed to reduce the power of an optical signal to a desired level without converting it to an electrical signal. The FC-APC (Angled Physical Contact) connector ensures low back reflection, making it ideal for high-precision single-mode fiber applications such as WDM systems, optical communication networks, and laboratory testing. Key Features Connector Type: FC-APC, which provides an angled end-face to minimize return loss and reflections. Attenuation Values: Common fixed values include 3 dB, 5 dB, 10 dB, 15 dB, 20 dB, and 25 dB, allowing precise control of optical power. Wavelength Range: Typically operates between 1240–1620 nm, covering standard single-mode communication windows. Construction: Uses polarization-insensitive doped fiber or metal-ion-doped fiber to absorb light and achieve the specified attenuation. Insertion Loss: Minimal additional loss beyond the specified attenuation; low return loss ensures signal quality. Connector Compatibility: The input and output connectors are designed to mate with standard FC/PC or FC/APC connectors, with universal key designs accommodating narrow and wide key connectors. Applications Optical Communication Systems: Adjusting signal power to prevent receiver saturation or to balance channels in WDM networks. Fiber Optic Testing: Simulating signal loss for testing equipment performance and calibration. Laboratory Experiments: Controlled attenuation in research setups for optoelectronic experiments. Advantages of FC-APC Reduced Back Reflection: The angled connector reduces reflections that can interfere with sensitive optical components. Stable Performance: Fixed attenuation ensures consistent signal reduction without manual adjustment. Compact and Easy to Use: Can be inserted directly into the optical path without additional fiber pigtailed or...

Article Content

FC Fixed Fiber Optic Attenuator | TTI Fiber

FC fixed fiber optic attenuator with threaded screw-on coupling for secure, vibration-resistant connections. Available in UPC and APC polish types with fixed attenuation values from 1dB to 25dB.

Fixed Fiber Optic Attenuator and Terminator Kits

The Fixed Fiber Optic Attenuators included in these kits allow one to attenuate an optical signal easily by plugging an FC/PC- or FC/APC-terminated fiber directly

Fiber Optic Attenuators | Optoelectronics | DigiKey

Fiber Optic Attenuators Fiber optic attenuators are devices used to reduce or monitor the power level of a fiber optic signal. Basic types of fixed attenuation

Fixed Optical Attenuators

Fixed Optical Attenuators Product Description: Fiber Optic Attenuators, Fixed Attenuation with a Variety of Connector Types 1260 to 1620nm Wavelength Range Singlemode, also Multimode Versions

Fiber Optic Attenuators: What They Are and When to Use Them

Besides LC, fixed attenuators are available for SC, ST, FC and MU cables with a choice of APC or UPC polish. Two ideal scenarios for fixed attenuators are where high-power light signals are being used,

Optical Attenuators – Buyer's Guide & Suppliers

This buyer's guide for optical attenuators provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

FC/APC Fiber optic Attenuator, Male to Female, 1~25dB

FC/APC Fiber optic Attenuator, Male to Female, 1~25dB attenuator, or fiber optic attenuator, is a device used to reduce the power level of an optical signal, either in free space or in

Fixed Fiber Optic Attenuators, Single Mode

The shaded region in these plots indicates the operating wavelength range that we specify for each attenuator. Performance outside of this range is not guaranteed.

OEM: Fixed Attenuators

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LBTEK-Fixed Optical Attenuator

LBTEK fixed fiber optic attenuators are developed based on the principle that metal ions absorb light. By doping optical fibers with metal ions, they absorb additional light within specific wavelength ranges,

Optical Attenuators, Fibre Optic Attenuators

FS fixed and variable optical attenuators with leading attenuating fibres make sure consistent and stable fibre attenuation (0~60dB) in wdm transmission all the time.

Optical Attenuators, Fixed & Variable Available

FS fixed and variable fiber optic attenuators with leading attenuating fibers guarantee consistent and stable fiber attenuation (0~60dB) in WDM transmission.

LC/LC Singlemode Fiber optic Attenuator APC Male/Female

This fixed fiber optic attenuator consists of a LC simplex male on one end and a LC simplex female on the other end. It is typically used to either test power levels or reduce power levels of an optical signal.

Fixed Fiber Optic Attenuators, Single Mode

Thorlabs' Fiber Optic Attenuator and Terminator Kits each contain six fixed attenuators, five terminators, and a selection of dust caps. Components in the FAK03 kit have FC/PC connectors while those in

LC Attenuators

VOA Or Fixed 1-60dB LC Attenuators are essential devices in fiber optic networks, designed to precisely control optical signal power patible with LC connectors, known for their compact and push-pull

Fiber Optic Attenuator, Fixed Fiber Optic Attenuator

Fiber Optic Attenuator is used in fiber optic communications. Sinooptic offers FC, SC, ST, and LC Multimode Fixed Fiber Optic Attenuator with High power light source durability.

SC/APC Fixed Fiber Optic Attenuator

Sinocomms' singlemode and multimode, fixed and variable fiber optic attenuators are wave length insensitive and offer multiple options including SC, LC, ST, FC, MU and E2000 connector types and

FC Attenuator For 10dB Attenuation In Single Mode Fiber

This fixed?optical?attenuator can only attenuate a fixed optical power, such as 3dB, 5dB, 15dB, 20dB, 25dB, etc. It is an attenuator designed for FC connectors, with a female-to-female connection. It is

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FC APC Fiber attenuator

Description Optical attenuator is an optical passive device, used for debugging and calibration of power performance, optical fiber instrument in optical communication system, attenuating input optical fiber

Fixed Fiber Optic Attenuators | Fiber Optic Attenuators

These compact attenuators have a male connector at one end and a female connector at the other end, enabling them to be placed in the optical path without

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High-tech Fiber Optic Supplier & Manufacturer, Factory

Quality-guaranteed raw materials are adopted to manufacture KEXINT Fiber Optic MTP MPO Attenuator Patch Cord Male APC 12core 3dB 5dB 10dB, which can

Fiber Optic Attenuators LC-SC-FC ... 1~30dB Price

Fixed attenuators are available in a wide range of attenuation values (1 dB to 30 dB) and can be integrated using standardized connector interfaces such as SC, LC, FC, or ST in UPC and APC

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