

Article Overview

The English term "Optical Attenuator" translates to German as "optisches Dämpfungsglied" or "Faser-Optikabschwacher."

Translation and Usage

o German Translation: "Optisches Dämpfungsglied" is the standard technical term used in optical and fiber-optic contexts, while "Faser-Optikabschwacher" specifically refers to fiber-optic implementations of the device .

o Function: An optical attenuator is a device that reduces the power level of an optical signal, either in free space or within an optical fiber . It is commonly used to prevent the receiver from being saturated by too strong a signal and to match transmitter and receiver power levels in fiber-optic communication systems .

o Applications: Optical attenuators are used in testing, engineering, and operational fiber-optic networks, including single-mode and long-haul DWDM systems. They can be fixed, step-wise variable, or continuously variable, depending on the required level of attenuation .

o Mechanism: Attenuation is typically achieved through absorption, reflection, diffusion, scattering, or deflection of light, similar to how sunglasses reduce light intensity .

Example Sentences in German

o "The fiber optic attenuator is installed to prevent receiver saturation." -> "Der Faser-Optikabschwacher wird installiert, um eine Sättigung des Empfängers zu verhindern."

o "Optical attenuators are used in various testing setups." -> "Optische Dämpfungsglieder werden in verschiedenen Testaufbauten verwendet." This translation and explanation provide both the linguistic equivalent and the technical context for understanding and using optical attenuators in German-speaking environments .

This document is a quick reference to some of the formulas and important information related to optical technologies.

An optical attenuator, or fiber optic attenuator, is a device used to reduce the power level of an optical signal, either in free space or

Find all translations of attenuator in German like Abschwächer, Dämpfer, Dämpfungselement and many others.

Optical Attenuator Translation

In the sophisticated domain of fiber optic communications, optical attenuators are indispensable for preserving the

Therefore, fiber optical attenuators play a crucial role in optical communication systems. So, what is an fiber optical

Explore the world of Optical Attenuators, their types, applications, and significance in Optical Physics, enhancing your

What is Optical Attenuator? Optical Attenuator (or fiber optic attenuator) is a passive device that is used to reduce the

An optical attenuator is an essential component in fiber optic communication systems that allows for the precise

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This article is a comprehensive technical report on fiber optic attenuators, which systematically explains its definition,

Explore the world of optical attenuators, their precision, types, and applications in telecommunications, testing, and

Translation for "attenuator" using the free English-German dictionary by LANGENSCHIEDT -- with examples, synonyms and

Learn the translation for "attenuator" in LEO's English <=> German dictionary. With noun/verb tables for the different cases and tenses

An optical attenuator is a passive device that reduces optical power in a controlled way without changing the signal

The fiber optic attenuator is also referred to as optical attenuator, which is generally used in single-mode long-haul

Viele übersetzte Beispielsätze mit "optical attenuator" - Deutsch-Englisch Wörterbuch und Suchmaschine für Millionen von Deutsch

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