

Product updated on November 18, 2017

Single mode Attenuators



Item Description

Attenuators are used in communication systems to reduce optical power launched onto the photo detector. These high performance devices are designed to give accurate attenuation over a wide range of wavelengths. The plug type configuration allows them to be used directly on the end of a patch cord, which in turn can insert directly into an adaptor.

Available in FC, SC and LC (short form factor) connector styles with UPC or APC finish and ST and MU connector styles with UPC finish, attenuators providing ultra-low return loss and are available from 1 dB to 30 dB in 1 dB increments.

Features/Benefits

- Plug-in type package
- Accurate attenuation
- Ultra-low back reflection
- Broad wavelength band
- Flat response over all wavelengths
- Environmentally stable

Applications

- Telecommunication networks
- Fibre optic sensors
- Test and measurement
- CATV
- LAN and WAN
- FTTX

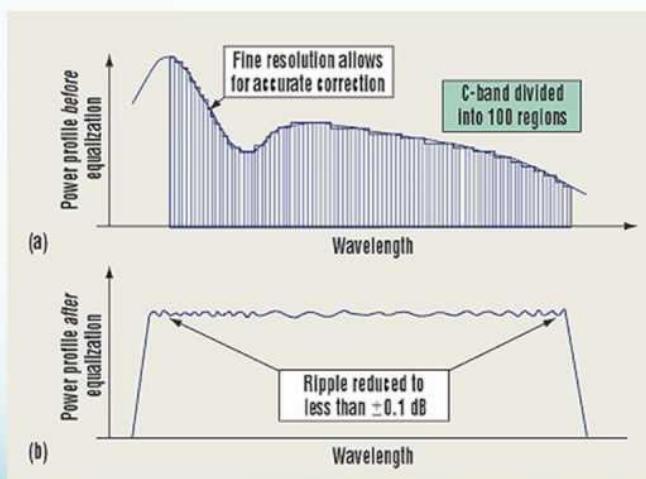
Specifications

Parameter

Available Range of Attenuation	1 to 30 dB with 1 dB increments
Operating Wavelength	1310 and 1550 nm (or single wavelength)
Operating Band Pass	Dual Window 1310 and 1550 nm (± 25 nm)
Attenuators ≤ 10 dB	± 0.5 dB
Attenuators 11 to 30 dB	± 1 dB
Reflectance	UPC = 50 dB APC = 60 dB
International Standard	Telcordia GR-910-CORE



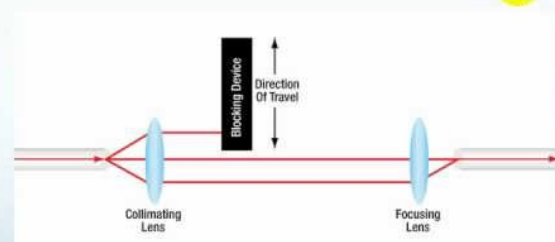
What Are Fiber Optic Attenuators?



Equalize Channel Strength
in a Multi-Wavelength System



Example of a Fixed Attenuator
(doped fiber with metal ion)



Design Example of a Variable Attenuator

Specifications

Parameter	
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Ordering information

PART NUMBER	DESCRIPTION
FASCSxxK	Single mode Attenuator - SC Connector xx dB
FASCASxxK	Single mode Attenuator - SCA Connector xx dB
FAFCSxxK	Single mode Attenuator - FC Connector xx dB
FAFCASxxK	Single mode Attenuator - FCA Connector xx dB
FALCSxxK	Single mode Attenuator - LC Connector xx dB
FALCASxxK	Single mode Attenuator - LCA Connector xx dB
FASTSxxK	Single mode Attenuator - ST Connector xx dB
FAMUSxxK	Single mode Attenuator - MU Connector xx dB

Replace xx with required dB from 01 - 30, e.g. **FASTS01K** is a **Single mode Attenuator - ST Connector 1dB**

