

Attenuators



Optronics single mode 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 you to use directly on the ends of the fibre jumpers and to insert directly in to the adapter.

Available in FC, SC, LC and MU connector styles with PC or APC finish providing ultra low return loss. Optronics attenuators comes to you from a world class manufacturing facility backed by 20 years of experience in manufacturing fibre optic passive and active devices. Products coming out of this facility have found worldwide applications in computer networking, telecommunications and cable TV.

Features

- Plug-in type package.
- Accurate attenuation.
- Ultra low back reflection.
- Broad wavelength band.
- Available with SC, FC, LC and MU packages.
- Flat response over all wavelengths.
- Environmentally Stable.
- Quick Delivery

Applications

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

Specifications

Description

The Optronics optical attenuators are manufactured using the best quality components.

For full information on the full range FibreFab products, please contact the address below for a data sheet.

Dimensions

FC — 10mm (diameter) x 30mm (L)

SC — 35mm (L) x 12.7mm (W) x 9.5mm (D)

Intermateability

Optically and mechanically compatible with all equivalent connectors.

Compliant with IEC 874-14.

Product Packaging

Each attenuator is packaged individually.

Temperature Cycling

(IEC 874-1 sec. 4.5.22)

-40 to +75°C, 40 cycles

=0.2dB Change

High Temperature:

(IEC 874-1 sec. 4.5.18)

75°C for 96 hours

=0.2dB Change

Damp Heat:

(IEC 874-1 sec. 4.5.19)

60°C at 95% RH, 96 hours

=0.2dB Change

Vibration (Mated Pair):

(IEC 874-1 sec. 4.5.1)

10-55 Hz, 1.5mm P to P

=0.3dB Change

Mating Durability:

(IEC 874-1 sec. 4.5.32)

1000 mating cycles

Clean every 25

< 0.2 dB Change

Operating Temperature

-40°C to +85°C

Connector type

SC / FC / LC / MU

Available Range of attenuation

1 to 30 dB with 1dB increments
(or custom attenuation within this range)

Operating Wavelength

1310nm and 1550nm (Or single wavelength)

Operating Band pass

Digital Band 1260-1360nm and 1430-1580nm
(BellcoreSpec.)

S + C + L Band 1480-1610nm

Special Bandpass 1310±25nm and 1470-1610nm

Single Window 1280-1340nm or 1510-1590nm

Dual Window 1310 and 1550nm (±25nm)

Attenuation Tolerance

Attenuators ≤ 5dB

± 0.5 dB

Attenuators, 6 to 30 dB

± 10% of attenuation

Reflectance

SPC ≤ 50 dB

UPC ≤ 55 dB

APC ≤ 60 dB

International Standard

Telcordia GR-910-CORE

Ordering Information

FA

SC

SC/APC

FC

FC/APC

LC

MU

S= Singlemode

M= Multimode

05= 5dB

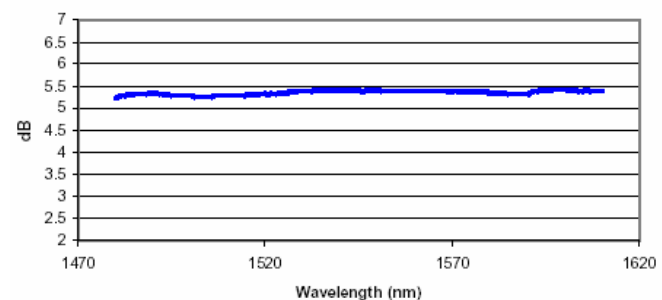
10= 10dB

15= 15dB

20= 20dB

25= 25dB

Attenuation Spectrum, 5dB Attenuator



Other versions available to special order

FibreFab Limited

Davy Avenue
Knowlhill
Milton Keynes
MK5 8ND

Tel: +44 (0) 870 127 3330
Fax: +44 (0) 870 127 3331
Email: sales@fibrefab.com
Internet: www.fibrefab.com

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