



# Datasheet Single Mode 5dB Attenuator

RS Stock number 536-8121



#### **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

### **Descriptions**

Single mode attenuators are used in communication systems to reduce optical power launched onto the photo detector. These high performances 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.



#### **ENGLISH**

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.

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

=0.2dB Change

Damp Heat: (IEC 874-1 sec. 4.5.19) 60°C at 95% RH, 96 hours

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)

Digital Band 1260-1360nm and 1430-1580nm **Operating Band pass** (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  $\pm 0.5 dB$ 

Attenuators, 6 to 30 dB ± 10% of attenuation

Other versions available to special order

