

## LC/PC Single Mode buildout Attenuator 1dB – 30dB



### Description

The BlueOptics® SFA21BKXX Fiber Optics single mode buildout attenuator is a high performance, cost effective solution to reduce the amplitude of a light signal.

All BlueOptics® buildout attenuators come with high return loss and low polarization loss.

BlueOptics® single mode buildout attenuators are compliant to Telcordia GR-910-Core.

BlueOptics® buildout attenuators are available in many different variants to fit your needs:

- Multi Mode or Single Mode
- LC, SC, or ST Connector
- 1dB to 30dB
- PC or APC Polish
- Simplex or Duplex

### Features

- ✓ 1x Simplex LC Connector
- ✓ Attenuation from 1dB to 30dB
- ✓ High Quality Ceramic Zirconia Ferrule
- ✓ For single mode fiber usage
- ✓ 1310nm and 1550nm
- ✓ Blue Housing
- ✓ Polarization Loss:  $\leq 0.1\text{dB}$
- ✓ Return Loss:  $\geq 45\text{dB}$
- ✓ Highest Connector Quality: Up 1500 mating cycles
- ✓ Single Packed
- ✓ Test Report

### Applications

- ✓ Long distance DWDM Systems
- ✓ CATV Systems
- ✓ Transceiver with LC Connector
- ✓ Fiber Optic Network

## Warnings

**Laser Safety:** Even small radiation emitted by laser devices can be dangerous to human eyes and lead to permanent eye injuries. Be sure to avoid eye contact with direct or indirect radiation.

## Warranty

Every BlueOptics® fiber optic attenuator comes with a 25 year replacement warranty and lifetime support. For a warranty inquiry, please contact your CBO sales representative.

This warranty only covers the first user of the equipment.

## Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by CBO before they become applicable to any particular order or contract. In accordance with the CBO policy of continuous improvement specifications may change without notice.

The publication of information in this data sheet does not imply freedom from patent or other protective rights of CBO or others.

Further details are available from any CBO sales representative.

## Installation

Before installation attach an ESD-preventive wrist to ensure not to damage your hardware.

Remove the dust caps of the attenuator.

Put the LC connector of your cable into the LC socket of the attenuator until you hear a "click" sound.

Now connect the attenuator to your hardware.

You can now use your connection.

*If you got problems with the connection:*

- Please make sure the connector is clean. If not, use a tissue and anhydrous alcohol to clean it accurate.

## Order Information

| Part No.  | Attenuation | Polish |
|-----------|-------------|--------|
| SFA21BK1  | 1dB         | PC     |
| SFA21BK2  | 2dB         | PC     |
| SFA21BK3  | 3dB         | PC     |
| SFA21BK4  | 4dB         | PC     |
| SFA21BK5  | 5dB         | PC     |
| SFA21BK6  | 6dB         | PC     |
| SFA21BK7  | 7dB         | PC     |
| SFA21BK8  | 8dB         | PC     |
| SFA21BK9  | 9dB         | PC     |
| SFA21BK10 | 10dB        | PC     |
| SFA21BK11 | 11dB        | PC     |
| SFA21BK12 | 12dB        | PC     |
| SFA21BK13 | 13dB        | PC     |
| SFA21BK14 | 14dB        | PC     |
| SFA21BK15 | 15dB        | PC     |
| SFA21BK16 | 16dB        | PC     |
| SFA21BK17 | 17dB        | PC     |
| SFA21BK18 | 18dB        | PC     |
| SFA21BK19 | 19dB        | PC     |
| SFA21BK20 | 20dB        | PC     |
| SFA21BK21 | 21dB        | PC     |
| SFA21BK22 | 22dB        | PC     |
| SFA21BK23 | 23dB        | PC     |
| SFA21BK24 | 24dB        | PC     |
| SFA21BK25 | 25dB        | PC     |
| SFA21BK26 | 26dB        | PC     |
| SFA21BK27 | 27dB        | PC     |
| SFA21BK28 | 28dB        | PC     |
| SFA21BK29 | 29dB        | PC     |
| SFA21BK30 | 30dB        | PC     |

## 1. Specifications

| Parameter             | Value   | Unit |
|-----------------------|---|------|
| Attenuation value     | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 | dB   |
|                       | $< 5 \pm 0.3$   |      |
|                       | $< 10 \pm 1$  |      |
|                       | $> 10 \pm 10\%$   |      |
| Return loss           | $> 45$  | dB   |
| Operation wavelength  | 1310/1550   | nm   |
| Medium                | single mode fiber   |      |
| Polarization loss     | $< 0.1$   | dB   |
| Operation temperature | -40 to +75  | °C   |
| Storage temperature   | -40 to +85  | °C   |

## 2. Mechanical Specifications (Unit: mm)

