

# DIAMOND

## Fiber Optic Components

SC  
SINGLE MODE  
IN LINE ATTENUATOR  
OAF-SC

### Specifications

|                     | Single Mode             |      |      |      |    | Single Mode 8° HRL |    |      |      |    | Unit |
|---------------------|-------------------------|------|------|------|----|--------------------|----|------|------|----|------|
| Fiber               | 9/125                   |      |      |      |    | 9/125              |    |      |      |    | μm   |
| Wavelength          | 1310/1550               |      |      |      |    | 1310/1550          |    |      |      |    | nm   |
| Nominal attenuation | 2                       | 4    | 5    | 6    | 10 | 15                 | 20 | 25   | 30   | dB |      |
| Tolerance*          | ±0.5                    | ±0.5 | ±0.5 | ±0.5 | ±1 | ±1.5               | ±2 | ±2.5 | ±2.5 | dB |      |
| Repeatability       | < 0,5 over service life |      |      |      |    |                    |    |      |      | dB |      |
| Service life        | min 1000 matings        |      |      |      |    |                    |    |      |      |    |      |
| Return loss         | > 45                    |      |      |      |    | > 65               |    |      |      |    | dB   |
| Temperature range   | -20/+80                 |      |      |      |    |                    |    |      |      | °C |      |

\* Values measured using 1310 or 1550 nm LED source. Additional IL induced by modal noise 0,05 dB/dB.  
The excess attenuation due to the 2 connections may be as high as 0.5 dB max. Other attenuations on request.



**DESCRIPTION:** *In-line fixed attenuators inducing wavelength independent attenuation, suitable for 1310 and 1550 nm, achieved using a special doped attenuating fiber.*

**DESIGN/MATERIALS:**

*Polish: 0° convex PC  
8° angled convex (APC).*

*Ferrule: Ø 2.5 mm zirconia ceramic with extending copper-nickel alloy insert, anti-rotation keyed.*

*Alignment sleeve: Floating zirconia split sleeve.*

*External parts: Plastic.*

**COMPATIBILITY:** *With all SC-PC and SC-APC connectors and mating adapters.*

**ATTENUATOR:** OAF SC/PC (0°) SM

**Color body:** Blue

**Order number:** 1 1 2 - 3 2 0 - 0 0 1 V 0

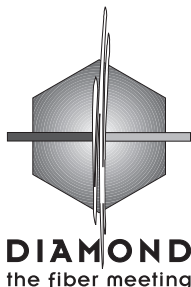
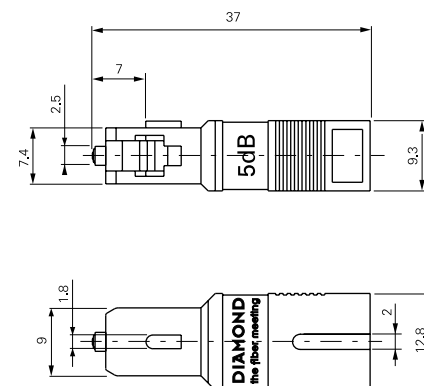
**ATTENUATOR:** OAF SC/APC (8°) SM

**Color body:** Green

**Order number:** 1 1 2 - 3 2 0 - 2 0 2 V 0

### ATTENUATION

| 2 dB | 4 dB | 5 dB | 6 dB | 10 dB | 15 dB | 20 dB | 25 dB | 30 dB |
|------|------|------|------|-------|-------|-------|-------|-------|
| 02   | 04   | 05   | 06   | 10    | 15    | 20    | 25    | 30    |



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*Specifications subject to change without notice*

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