



# Attenuators

From 1dB to 30dB with various connectors such SC and LC, UPC and APC

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## Features

- Excellent Environmental Stability
- Attenuation Stability
- Excellent Return Loss
- Polarization Insensitive
- Easy Installation
- Telcordia GR-910-core Requirement

## Application

- Telecommunications Systems
- Local Area Networks
- CATV
- Subscribe Loop
- Test Equipment
- Optical Fiber Sensors

## Design

Doped fiber to provide fixed level of optical attenuation.

Fixed plug type fiber attenuator provides a connector plug (male) and an adapter socket (female) to connect between fiber patch cord and fiber adapter. Fixed plug type optical attenuator introduces an in line fixed loss that will reduce the source power to an acceptable detection level. The attenuation level should be stable with temperature and wavelength for a stable reliable system.

## Product Information

Also available with MU, FC, and ST connector

## Technical Information

<b>Temperature, Operation [°C]</b>	-20°C to +70°C
<b>Temperature, Storage [°C]</b>	-40°C to +85°C
<b>Return Loss, min [dB]</b>	≥50 dB UPC / ≥60 dB APC
<b>Conformance</b>	RoHS compliant. TIA/EIA 604 Series, TIA/EIA 568.3 D, IEC 61754 Series, IEC 61753 1, GR 326 Core and GR 910 Core
<b>Technical Notes</b>	The requirement for the optical measurement facility are the following: <ul style="list-style-type: none"> <li>·Testing wavelength: 1310 nm and 1550 nm.</li> <li>·Operation wavelength: 1260 - 1650 nm</li> <li>·Accuracy in measurement of loss: 1-5dB ±0.05 dB, 6-20dB ±10%, 21-30dB ±2 dB</li> </ul>

## Articles 78

Article name	Color	No. of Fibers	Layout	Weight [kg]
Attenuator SM ST/UPC 1dB doped fiber 19201	–	1	Simplex	0.009
Attenuator SM ST/UPC 2dB doped fiber 19202	–	1	Simplex	0.009
Attenuator SM ST/UPC 3dB doped fiber 19203	–	1	Simplex	0.009
Attenuator SM ST/UPC 5dB doped fiber 19205	–	1	Simplex	0.009
Attenuator OM1 ST/PC 5dB doped fiber 19205-1	–	1	Simplex	0.009
Attenuator OM2 ST/PC 5dB doped fiber 19205-2	–	1	Simplex	0.009
Attenuator OM1 ST/PC 6dB doped fiber 19206-1	–	1	Simplex	0.009
Attenuator SM ST/UPC 10dB doped fiber 19210	–	1	Simplex	0.009
Attenuator OM1 ST/PC 10dB doped fiber 19210-1	–	1	Simplex	0.009
Attenuator SM SC/UPC 1dB doped fiber 19401	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 2dB doped fiber 19402	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 3dB doped fiber 19403	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 4dB doped fiber 19404	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 5dB doped fiber 19405	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 6dB doped fiber 19406	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 7dB doped fiber 19407	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 8dB doped fiber 19408	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 9dB doped fiber 19409	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 10dB doped fiber 19410	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 12dB doped fiber 19412	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 15dB doped fiber 19415	Blue	1	Simplex	0.009
Attenuator SM SC/UPC 20dB doped fiber 19420	Blue	1	Simplex	0.009
Attenuator SM FC/UPC 3dB doped fiber 19503	–	1	Simplex	0.009

Article name	Color	No. of Fibers	Layout	Weight [kg]
Attenuator SM FC/UPC 5dB doped fiber 19505	–	1	Simplex	0.009
Attenuator SM FC/UPC 10dB doped fiber 19510	–	1	Simplex	0.009
Attenuator SM FC/UPC 15dB doped fiber 19515	–	1	Simplex	0.009
Attenuator SM FC/UPC 20dB doped fiber 19520	–	1	Simplex	0.009
Attenuator SM FC/UPC 25dB doped fiber 19525	–	1	Simplex	0.009
Attenuator SM SC/APC 1dB doped fiber 19601	Green	1	Simplex	0.009
Attenuator SM SC/APC 2dB doped fiber 19602	Green	1	Simplex	0.009
Attenuator SM SC/APC 3dB doped fiber 19603	Green	1	Simplex	0.009
Attenuator SM SC/APC 4dB doped fiber 19604	Green	1	Simplex	0.009
Attenuator SM SC/APC 5dB doped fiber 19605	Green	1	Simplex	0.009
Attenuator SM SC/APC 6dB doped fiber 19606	Green	1	Simplex	0.009
Attenuator SM SC/APC 7dB doped fiber 19607	Green	1	Simplex	0.009
Attenuator SM SC/APC 8dB doped fiber 19608	Green	1	Simplex	0.009
Attenuator SM SC/APC 9dB doped fiber 19609	Green	1	Simplex	0.009
Attenuator SM SC/APC 10dB doped fiber 19610	Green	1	Simplex	0.009
Attenuator SM SC/APC 12dB doped fiber 19612	Green	1	Simplex	0.009
Attenuator SM SC/APC 15dB doped fiber 19615	Green	1	Simplex	0.009
Attenuator SM SC/APC 20dB doped fiber 19620	Green	1	Simplex	0.009
Attenuator SM FC/APC 5dB doped fiber 19905	–	1	Simplex	0.009
Attenuator SM E2000/APC 2dB doped fiber 19F02	–	1	Simplex	0.009
Attenuator SM E2000/APC 5dB doped fiber 19F05	–	1	Simplex	0.009
Attenuator SM E2000/APC 8dB doped fiber 19F08	–	1	Simplex	0.009
Attenuator SM E2000/APC 10dB doped fiber 19F10	–	1	Simplex	0.009
Attenuator SM LC/UPC 1dB doped fiber 19L01	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 2dB doped fiber 19L02	Blue	1	Simplex	0.009

Article name	Color	No. of Fibers	Layout	Weight [kg]
Attenuator SM LC/UPC 3dB doped fiber 19L03	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 4dB doped fiber 19L04	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 5dB doped fiber 19L05	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 6dB doped fiber 19L06	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 7dB doped fiber 19L07	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 8dB doped fiber 19L08	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 9dB doped fiber 19L09	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 10dB doped fiber 19L10	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 11dB doped fiber 19L11	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 12dB doped fiber 19L12	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 13dB doped fiber 19L13	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 14dB doped fiber 19L14	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 15dB doped fiber 19L15	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 16dB doped fiber 19L16	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 17dB doped fiber 19L17	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 18dB doped fiber 19L18	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 19dB doped fiber 19L19	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 20dB doped fiber 19L20	Blue	1	Simplex	0.009
Attenuator SM LC/UPC 30dB doped fiber 19L30	Blue	1	Simplex	0.009
Attenuator SM LC/APC 2dB doped fiber 19N02	Green	1	Simplex	0.009
Attenuator SM LC/APC 3dB doped fiber 19N03	Green	1	Simplex	0.009
Attenuator SM LC/APC 5dB doped fiber 19N05	Green	1	Simplex	0.009
Attenuator SM LC/APC 10dB doped fiber 19N10	Green	1	Simplex	0.009
Attenuator SM MU/UPC 1dB doped fiber 19M01	–	1	Simplex	0.009
Attenuator SM MU/UPC 2dB doped fiber 19M02	–	1	Simplex	0.009

Article name	Color	No. of Fibers	Layout	Weight [kg]
Attenuator SM MU/UPC 3dB doped fiber 19M03	–	1	Simplex	0.009
Attenuator SM MU/UPC 5dB doped fiber 19M05	–	1	Simplex	0.009
Attenuator SM MU/UPC 10dB doped fiber 19M10	–	1	Simplex	0.009
Attenuator SM MU/UPC 15dB doped fiber 19M15	–	1	Simplex	0.009
Attenuator SM MU/UPC 20dB doped fiber 19M20	–	1	Simplex	0.009