

Male to Female Optical Attenuator



Introduction

Male to Female optical attenuator is used in optical systems where the optical power from a source is too high for the test equipment in use. It offers a fixed loss that will reduce the source power to an acceptable level. The attenuation level should be stable with temperature and wavelength for a stable reliable system.

T&S provides a wide range of singlemode and multimode Male to Female optical attenuators. They are used directly on the fiber optic connectors and provide a fixed level of optical attenuation. Single mode fiber based Male to Female attenuators with single window (1550nm) or dual window (1310nm & 1550nm). Multimode fiber based Male to Female attenuators with single window (850nm).

Features

- High precision connector
- PC UPC APC end face polish
- LC, MU, SC, FC, ST single fiber connector
- Precise attenuation value
- High precision with 1dB increment
- 100% factory terminated and tested
- ROHS Compliant

Standard Compliance

- TIA/EIA 604 Series
- TIA/EIA 568.3-D
- IEC 61754 Series
- IEC 61753-1
- GR 326-Core
- GR 910-Core

General Specification

Construction	Description
Fiber Mode	Single mode: G.652/G.657 Multimode: OM1 OM2 OM3 OM4
Fiber Brand	SMF-28® Ultra optical fiber Corning ClearCurve® multimode fiber
Connector type	FC/ SC/ LC /MU/ ST
Endface polish	PC/ UPC /APC (unavailable for ST)
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C

Technical Specification

Spec. Item		Unit		
Model		-	SM	MM
Operating Wavelength		nm	1310 & 1550	850 (LED or VCSEL)
Attenuation Value		dB	1-25	1-5
Attenuation Accuracy	1 ~ 5	dB	± 0.5	± 0.5
	6 ~ 19	dB	± 10%	/
	20 ~ 25	dB	± 2.0	/
Return Loss		dB	≥50 (UPC); ≥60 (APC)	≥20 (PC)

Note:

Attenuation test per IEC 61300-3-4 Insertion Method C