

Fiber Optic Attenuator

Fiber optic attenuator or Optical attenuator is a passive optical device that reduce the power level of an optical signal. Optical attenuator is used to attenuate the input optical power and avoid the distortion caused by the optical receiver due to the strong input optical power. The bulkhead fixed optical attenuator can be plugged into the receiver receptacle. The plug-in fixed optical attenuator provides a connector plug (male) and an adapter socket (female) to connect between fiber patch cord and fiber adapter. The inline attenuator resembles a patch cord and is typically used between the patch panel and the receiver.

1. Bulk head Type Female to Female Attenuator

SC/UPC ATT	SC/APC ATT	FC ATT	ST ATT	LC ATT	E2000/UPC ATT	E2000/APC ATT

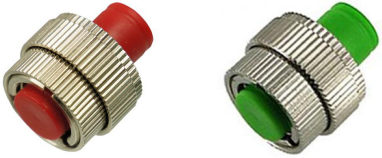
2. Plug Type Male to Female Attenuator

SC/UPC ATT	SC/APC ATT	FC/UPC ATT	FC/APC ATT	ST Attenuator	LC/UPC ATT	LC/APC ATT
MU ATT	E2000/UPC ATT	E2000/APC ATT	MPO Loopback ATT	MPO ATT		

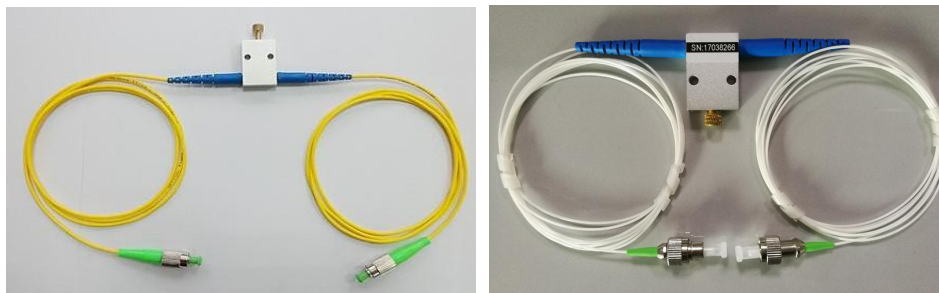
Specifications

Attenuation Value: 1dB ~ 30dB	
Operating Wavelength: 1240 ~ 1620nm (Dual 1310/1550nm)	
Premium	
Return Loss	UPC >55dB
	APC >65dB
Attenuation Accuracy	1 ~ 7 dB ±0.5dB
	8 ~ 12 dB ±0.7dB
	13 ~ 17 dB ±1.0dB
	18 ~ 25 dB ±1.3dB
Maximum Optical Input Power 1000mW	
Polarization Dependent Loss ≤0.1dB	
Operating Temperature Range -40 to 75	
Storage Temperature Range -40 to 85	
Humidity 95%RH	

3. FC Variable Optical Attenuator (VOA) Specifications

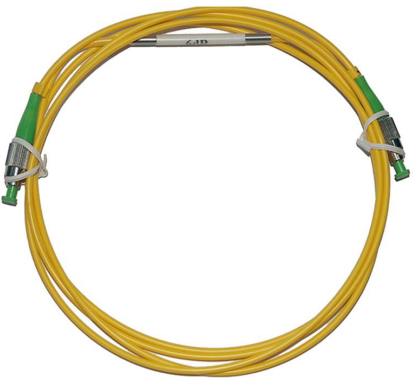
Operation wavelength	1310/1550nm	
Attenuation range	0-30(dB)	
Attenuation accuracy	±0.1dB	
Return Loss	≥50dB (PC) or ≥60dB (APC)	
Operating Temperature	-40 ~ 80 °C	
Storage Temperature	-40 ~ 80 °C	

4. Manual Variable Optical Attenuator (MVOA) Specifications



Parameter	1310nm	1550nm	1310/1550nm	1064nm
Operating Wavelength (nm)	1310 ± 40	1550 ± 40	1310 ± 40 & 1550± 40	1064 ± 20
Max. Attenuation Range (dB)	0.6 ~ 60	0.6 ~ 60	0.8 ~ 60	0.6 ~ 60
Insertion Loss (dB)	≤0.6	≤0.6	≤0.8	≤0.6
Return Loss (dB)	≥50			≥50
Fiber Type	SMF-28e			HI1060
Adjustment Precision (dB)	0.02			
PDL (dB)	≤0.15			
Maximum Power Handling	500mW			
Operating Temperature	-5 ~+70 °C			
Storage Temperature	-40 ~+85 °C			
Dimension	26x18x8mm			

5. Inline Fixed Optical Attenuator (FOA) Specifications

Items	Parameters	
Operating wavelength	1250~1620nm	
Attenuation Value	1dB~10dB (1dB step), 15, 20, 25, 30dB	
Connector style	FC/PC、SC/PC、FC/APC、SC/APC、LC、Customer	
Attenuation accuracy	1~9dB (±0.5dB) 10~20dB (±1.0dB) 21~30dB (±1.5dB)	
Reflection loss	≥50dB (UPC), ≥65dB (APC)	
PDL	<0.2dB	
Operating temperature	-40°C~+70°C	
Storage temperature:	-40°C~+85°C	
Thermal stability	0.3dB/°C	
Power	1W	