

Fiber Optical Attenuator



General Description

Fiber Optic Attenuator is a component installed in a fiber optic transmission system that reduces the power in the optical signal. It is often used to limit the optical power received by the photo detector to within the limits of the optical receiver. Sopto can provide female to male (plug type), Bulkhead-fixed value attenuator, in-line attenuator and variable attenuators.

Features

- Low back reflection and Low PDL
- High precision attenuation value
- Precision control of attenuation range
- Wide attenuation range
- Precision ceramic ferrule
- FC, SC, ST, LC ... optional
- PC,UPC and APC available
- Plastic or metal housing material

Application

- Optical line distributing frame
- Fiber-optical network system
- Hi-speed fiber-optical transmission system
- Dense Wavelength Division Multiplex (DWDM) system
- Optical add-drop multiplexers (OADM)

Parameter

Item	Unit	Parameter
Operating Wavelength	Nm	1310/1550
Attenuation Range	dB	1-10dB(1dB step), 15, 20, 25, 30dB
Return Loss	dB	PC:≥50 UPC: ≥55 APC: ≥60
Attenuation Tolerance	dB	≤1.0 (11-30dB)
Working Temperature	°C	-25°C~+75°C
Storage Temperature	°C	-40°C~+ 85°C

Fiber Optical Attenuator Pictures

		
Optical Attenuator, plug type, SC/PC SM	Optical Attenuator, plug type, SC/APC SM	Optical Attenuator, plug type, LC/PC SM
		
Optical Attenuator, plug type, LC/APC, SM	Optical Attenuator, plug type, ST/PC SM	Optical Attenuator, plug type, ST/APC SM
		
Optical Attenuator, plug type, FC/PC SM	Optical Attenuator, Plug type, FC/APC, SM	Optical Attenuator, plug type, MU/UPC SM
		
Optical Attenuator Fixed Type SM SC/PC	Optical Attenuator, Fixed Type, LC/PC, SM	Optical Attenuator, Fixed Type FC/PC SM

Ordering Info. for Attenuator

Part Number: SPAT- FC F- FC F- U- 5 F M
1 2 3 4 5 6 7 8

Product Description: Attenuator FC Female/FC Female UPC 5DB SM Fixed Value Metal Shell

1 - Connector A	LC SC FC ST etc
2 - Connector A Type	F:Female ; M:Male
3 - Connector B	LC SC FC ST etc
4 - Connector B Type	F:Female ; M:Male
5 - Endface	U: UPC polish; P: PC polish; A: APC polish
6 - Attenuation Value	1:1DB ; 3:3DB; 5:5DB; etc 30;1-30DB
7 - Variable	F:Fixed value; V:Variable; I:Inline Fixed ; S: Inline Variable
8 -Shell Material	P:Plastic; PM:Half Plastic Half Metal; M;Metal
9 -Structure 1	E:with Ears; Null:without Ears
10 - Structure 2	S:with Spring strip; Null:without Spring strip

Note: If you need more customized services, please contact us.

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