

Attenuator Specification

1. Overview

Fixed male to female attenuator is a passive device used to reduce the intensity of optical signal without significantly changing the transmission wavelength.

This device is used in transmission links such as dense wavelength division multiplexer (DWDM) and erbium-doped fiber amplifier (EDFA) with high intensity optical power. This product USES the patented metal ion erbium-doped fiber to effectively reduce the intensity of optical signal transmission. Compared with the optical fiber offset welding method that only changes the direction of optical transmission, the production process of this product has a significant difference in all aspects.

It is suitable for 1310-1550, C and L bands, and can withstand the transmission of high-intensity light power over 1W for a long time, better adapting to EDFA and other high-power applications. Low polarization loss (PDL) and stable independent wavelength distribution make optical fiber attenuator an ideal choice for DWDM.

2. Application

- *EDFA
- *DWDM
- *OADM
- *CATV


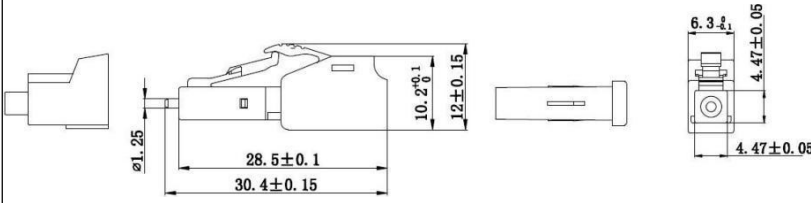

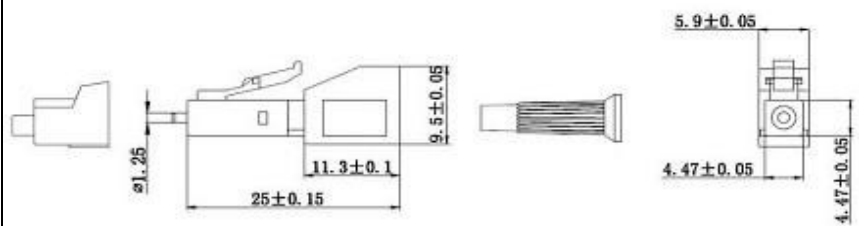
3. Features

- * Erbium-doped metal ion attenuation fiber is adopted.
- * Long time to withstand high power optical signal transmission.
- * 1260-1640nm bandwidth, applicable to both 1310 and 1550 wavelengths.
- * Attenuation range 0-30db, distinguish between standard and quality products with two different indicators.

4. Product specification


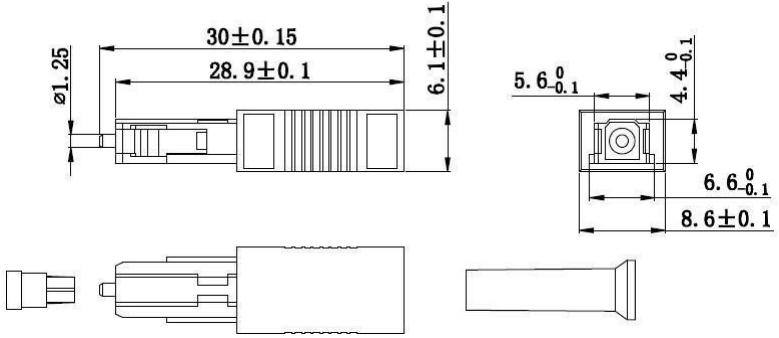
	UOM	Terms	Indicators (Level R)
Attenuation range	dB	UPC&APC	0-30
Attenuation deviation	dB	0-4	-0.5~+0.5
	dB	5-10	-10%*X~+10%*X
	dB	11-30	
Return loss	dB	UPC	≥50
		APC	≥60
Working wavelength	nm	--	1310&1550
Working bandwidth	nm	--	1260&1640
Working temperature	C	--	-40~+75
Storage temperature	C	--	-40~+85
Vibration loss	dB	10-55HZ,2hours	≤0.2
Drop loss	dB	1.5M,5 times drop	≤0.2
Maximum power	MW	--	500
3D indicators	--	In proportion	≥70%
3D indicators	--	100% compliant with 3D standards	Optional*

5. Product photo and Dimension

LC	
Photo	
Dimension	
Photo	
Dimension	

SC	
Photo	
Dimension	<p> Dimensions (mm): Total length: 36 ± 0.2 Length to center of ferrule: 31.7 ± 0.1 Ferrule length: 8.95 ± 0.05 Ferrule diameter: $\varnothing 2.5$ Length of ferrule to body: 2.1 ± 0.05 Body length: 12.6 ± 0.1 Width of ferrule: 9.4 ± 0.1 Width of body: 1.7 ± 0.1 </p>
ST	
Photo	
Dimension	<p> Dimensions (mm): Total length: 37 ± 0.2 Length to center of ferrule: 29 ± 0.15 Ferrule length: $\varnothing 9.6 \pm 0.1$ Ferrule diameter: $\varnothing 2.5$ Length of ferrule to body: 1.3 ± 0.1 Body length: $\varnothing 6.9 \pm 0.05$ Body diameter: 8.3 ± 0.15 </p>

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MU	
Photo	
Dimension	
Packaging	<p>SC packaging</p> <ol style="list-style-type: none"> 1. Blister box: 22.5CM*14.2CM*2CM; 50pcs/ box GW.: 472g/box 2. Mini bag: 1pc/mini bag, 100pcs/big bag. <p>LC Packaging</p> <ol style="list-style-type: none"> 1. Blister box: Blister box: 22.5CM*14.2CM*2CM; 50pcs/ box GW: 87.2g/box. 2. Mini bag: 1pc/mini bag, 100pcs/big bag. <p>FC packaging:</p> <ol style="list-style-type: none"> 1. Blister box: 22.5CM*14.2CM*2CM; 50pcs/ box GW.: 408g/box 2. Mini bag: 1pc/mini bag, 100pcs/big bag.

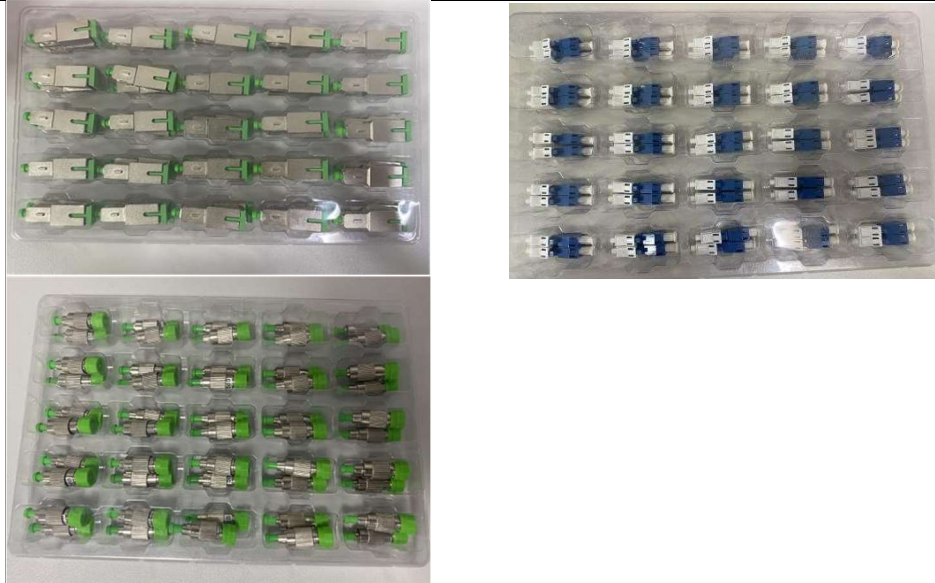


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Blister box packaging photo



Mini PP bag packaging photo

Build Out Attenuator LC/UPC 3dB		Build Out Attenuator SC/UPC 3dB		Build Out Attenuator FC/UPC 3dB	
Serial NO:210415001		Serial NO:210415001		Serial NO:210415001	
Attenuation		Attenuation		Attenuation	
1310nm	3.17	1310nm	3.24	1310nm	3.36
1550nm	3.08	1550nm	3.19	1550nm	2.73
Reflectance		Reflectance		Reflectance	
1310nm	52.8	1310nm	51.5	1310nm	51.6
1550nm	52.9	1550nm	51.7	1550nm	51.9

