Technical Specification.

LC Plug In형 고정 광감쇄기

(LC Optical Attenuator Fixed, SM, LC Plug In Type)

OFATP Series

OACNetworks
Optical Advanced Communication

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1. Application Limit

1.1 Application Limit

These specifications apply to the LC series Attenuator (Fixed, Plug In Type)

2. Order Information

Table 1 Information of order

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Optical Fiber Attenuator
(Fixed, Plug In Type)

Mode
SM : Single Mode (9/125)
MM: Multi Mode (50/125)

Attenuation
01~30 dB

Polishing
S : Super PC
U : Ultra PC
A : Angled PC

Type
L : LC Type

Sleeve
Z : Zorconia
B : Copper alloy

Example) OFATP-SM-10-S-L-Z

3. General Specifications

3.1 Parts and Materials

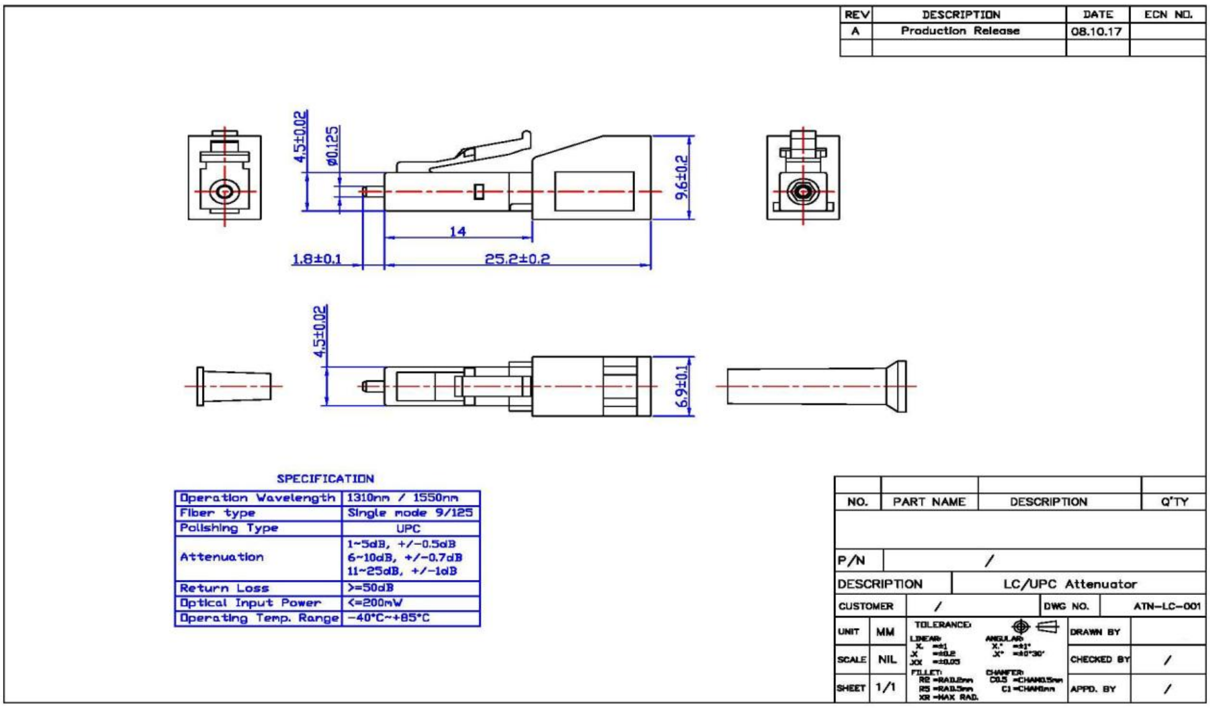
Parts and the materials are shown in Table 2

Table 2 Parts and Materials

No.	Parts Name	Q'ty	Material	Notes
1	Housing	1	PEI	
2	Stopper	1	PBT	
3	Body	1	Brass	Nickel Plating
4	Ferrule	1	Zirconia ceramic	
5	Spring	1	SUS	
6	Sleeve	1	Notes	SM : Zirconia ceramic MM: Bronze
7	Cap	1	PE	

3.2 Physical Dimensions

Figure 1 shows the assembled state of LC Attenuator(Fixed, Plug In Type)



3.3 General Tolerance

Permissible deviation in dimensions without tolerance indication is in accordance with JIS B 0405 class, as shown in Table 3

Table 3 General Tolerance(JIS B 0405 class m)

Basic size step (mm)		Permissible deviation (mm)
Over	Under	
0.5	3	± 0.1
3	6	± 0.1
6	30	± 0.2
30	120	± 0.3

4. Optical Performance

Specifications and measurement conditions are shown in Table 4.
Figures 1 show the measurement system.

Table 4 Specifications and measurement conditions

Characteristics	Conditions	Values
Insertion loss	Light source : LD Wave Length : 1310nm1550nm Master cord terminated : UPC Polish(APC adaptor: APC Polish)	1~10dB:A.V ± 0.5dB 10~15dB:A.V ± 1.0dB 15~30dB:A.V ± 1.5dB
Return loss	Ditto	SPC > 40dB UPC > 55dB APC > 65dB
Attenuation Flatness	±0.25dB for <5dB ±0.3dB for >5dB 1250-1620nm	
PDL	1550nm	<0.2dB
Application	Metal Doped fiber (Attenuation fiber)	
Durability	500 mating	△0.2dB or less
Temperature cycling	-40℃~75℃(42cycles)	△0.2dB or less
Vibration	1~55Hz(2Hr)	△0.2dB or less
Impact	1.5m drop, 8cycles	△0.2dB or less

A.V : Attenuation Value

5. Measured Attenuator

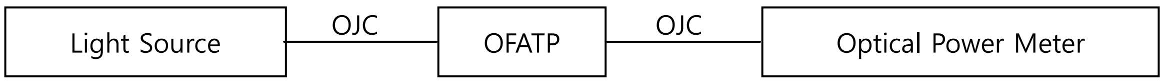


Figure 1 Insertion Loss and Measurement system

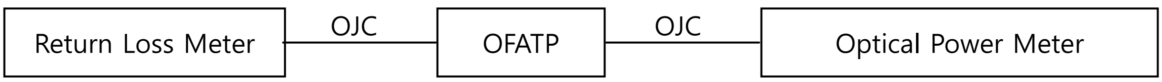


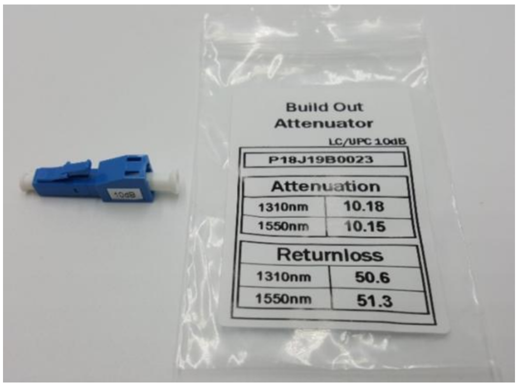
Figure 2 Return Loss and Measurement system

6. Shipping Inspection & label

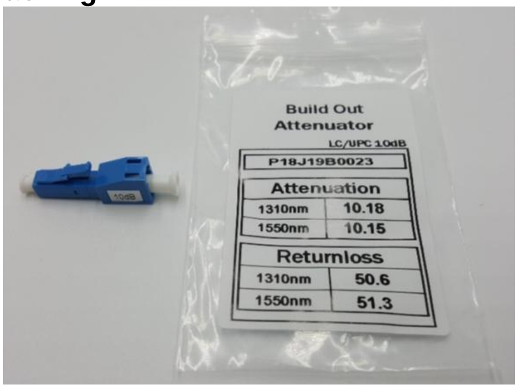
Insertion loss for LC Attenuators (Fixed, Plug) are inspected before shipping and the inspection results are enclosed

Attenuation	
1310nm	xx. dB
1550nm	xx. dB

Return Loss	
1310nm	xx. dB
1550nm	xx. dB



7. Packing



8. Supplier Information

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