

## 1310nm SM Fixed In-line Optical Attenuator

1310nm SM Fixed In-line Optical Attenuator is a fiber component which can attenuate the optical power with a fixed attenuation value, the attenuation value can be up to 30dB, it's widely used in Quantum Communication, fiber laser and Testing System. High power type is available upon request.

### Application:

Quantum Communication  
Fiber Laser  
Testing System  
Lab And Research

### Features:

High Precision  
High Power  
High Attenuation  
High Reliability



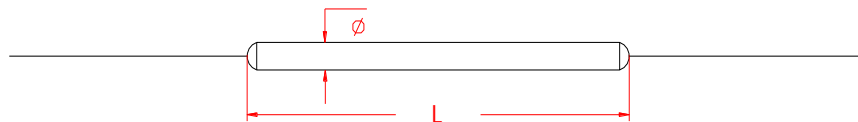
### Specification:

| Parameter                        | Symbol    | Value                                                                                                                    | Unit |
|----------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|------|
| Center Wavelength                | $\lambda$ | 1310                                                                                                                     | nm   |
| Bandwidth                        | BW        | $\pm 10$                                                                                                                 | nm   |
| Attenuation and Tolerance        |           | 1 $\pm$ 0.1, 2 $\pm$ 0.2, 3 $\pm$ 0.3, 5 $\pm$ 0.7, 10 $\pm$ 1.0, 15 $\pm$ 1.8, 20 $\pm$ 2.5, 30 $\pm$ 3.0 or customized | dB   |
| Max. Polarization Dependent Loss | PDL       | 0.15                                                                                                                     | dB   |
| Min. Return Loss                 | RL        | 50                                                                                                                       | dB   |
| Max. Optical Power (CW)          | P         | 500                                                                                                                      | mW   |
| Max. Tensile Load                |           | 5                                                                                                                        | N    |
| Fiber Type                       |           | SMF-28e fiber                                                                                                            | -    |
| Operating Temperature            | T         | -5~70                                                                                                                    | °C   |
| Storage Temperature              | T         | -40~85                                                                                                                   | °C   |
| Package Dimension                |           | $\Phi 3.0 \times L54$                                                                                                    | mm   |

Notice: Above specifications are tested at center wavelength without connector in room temperature @23°C.

For devices with connectors, RL will be 5dB lower.

### Drawing:



### Ordering Information (Part Number):

| SMFIA- <b>WWW</b> - <b>PP</b> - <b>AA</b> - <b>J</b> - <b>LL</b> - <b>CC</b> |           |              |                      |              |              |
|------------------------------------------------------------------------------|-----------|--------------|----------------------|--------------|--------------|
| <b>WWW</b>                                                                   | <b>PP</b> | <b>AA</b>    | <b>J</b>             | <b>LL</b>    | <b>CC</b>    |
| Wavelength                                                                   | Port      | Attenuation  | Fiber Jacket         | Fiber Length | Connector    |
| 1300 - 1300nm                                                                | 11 - 1x1  | 01 - 1dB     | B - 250um Bare Fiber | 05 - 0.5m    | NE - None    |
| 1310 - 1310nm                                                                |           | 02 - 2dB     | 9 - 900um Loose Tube | 10 - 1.0m    | FA - FC/APC  |
| 1350 - 1350nm                                                                |           | 03 - 3dB     | 2 - 2mm Loose Tube   | 15 - 1.5m    | FU - FC/UPC  |
| 1360 - 1360nm                                                                |           | 05 - 5dB     | 3 - 3mm Loose Tube   | 20 - 2.0m    | SA - SC/APC  |
| 1370 - 1370nm                                                                |           | 10 - 10dB    |                      | SS - Specify | SU - SU/APC  |
| 1380 - 1380nm                                                                |           | 15 - 15dB    |                      |              | LA - LC/APC  |
| SSSS - Specify                                                               |           | 20 - 20dB    |                      |              | LU - LC/UPC  |
|                                                                              |           | 30 - 30dB    |                      |              | SS - Specify |
|                                                                              |           | SS - Specify |                      |              |              |
|                                                                              |           |              |                      |              |              |