

## 405nm SM Manual Variable Optical Attenuator

405nm SM Manual Variable Optical Attenuator is a fiber component which can control the attenuation of the optical power by adjusting the screw, the attenuation value can be up to 60dB, it's widely used in Quantum Communication field, Optical Power Testing System, higher power version is available.

### Application:

Quantum Communication  
Fiber Laser  
Testing System  
Lab And Research

### Features:

Low Original Loss  
High Return Loss  
High Attenuation Range  
High Reliability



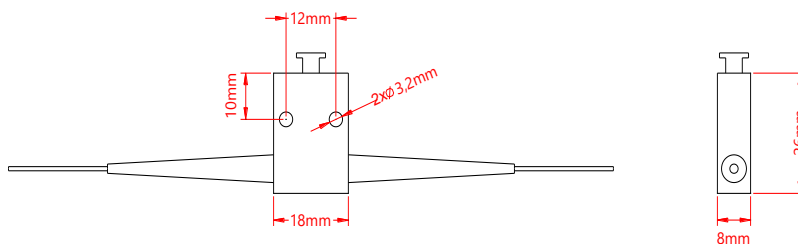
### Specification:

| Parameter                        | Symbol    | Value         | Unit |
|----------------------------------|-----------|---------------|------|
| Center Wavelength                | $\lambda$ | 405           | nm   |
| Bandwidth                        | BW        | $\pm 10$      | nm   |
| Attenuation Range                |           | 1.0-60        | dB   |
| Max. Original Loss               | IL        | 1.0           | dB   |
| Adjustment Precision             |           | 0.02          | 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                       |           | S405-XP fiber | -    |
| Operating Temperature            | T         | -5~70         | °C   |
| Storage Temperature              | T         | -40~85        | °C   |
| Package Dimension                |           | 26x18x8       | mm   |

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

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower.

### Drawing:



### Ordering Information (Part Number):

| SMVOA- <b>WWW</b> - <b>J</b> - <b>LL</b> - <b>CC</b> |                      |              |              |
|------------------------------------------------------|----------------------|--------------|--------------|
| <b>WWW</b>                                           | <b>J</b>             | <b>LL</b>    | <b>CC</b>    |
| Wavelength                                           | Fiber Jacket         | Fiber Length | Connector    |
| 405 - 405nm                                          | B - 250um Bare Fiber | 05 - 0.5m    | NE - None    |
| 410 - 410nm                                          | 9 - 900um Loose Tube | 10 - 1.0m    | FA - FC/APC  |
| 420 - 420nm                                          | 2 - 2.0mm Loose Tube | 15 - 1.5m    | FU - FC/UPC  |
| 430 - 430nm                                          | 3 - 3.0mm Loose Tube | 20 - 2.0m    | SA - SC/APC  |
| 440 - 440nm                                          |                      | SS - Specify | SU - SU/APC  |
| 450 - 450nm                                          |                      |              | LA - LC/APC  |
| 458 - 458nm                                          |                      |              | LU - LC/UPC  |
| SSS - Specify                                        |                      |              | SS - Specify |