

## 840nm In Line Depolarizer

840nm In Line Depolarizer is built with quarter-wave plate which can be used for transferring the line polarization light into circularly polarized light or elliptically polarized light to reduce the influence of the polarization state on the fiber system, it's widely used in Quantum Communication, Fiber Optic Sensor and OCT field. High power type is also available upon request.

### Application:

Quantum Communication  
Fiber Optic Sensor  
OCT  
Lab And Research

### Features:

Low Polarization Degree  
High Power Available  
Low Insertion Loss  
High Reliability



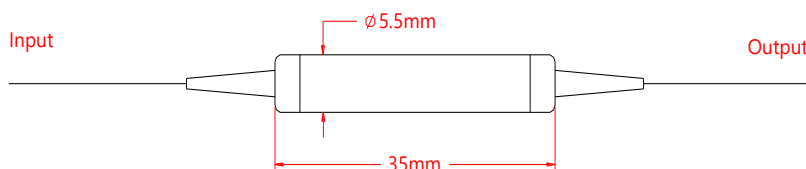
### Specification:

| Parameter               | Symbol    | Value                                | Unit |
|-------------------------|-----------|--------------------------------------|------|
| Center Wavelength       | $\lambda$ | 840                                  | nm   |
| Bandwidth               | BW        | $\pm 30$                             | nm   |
| Typ. Insertion Loss     | IL        | 0.7                                  | dB   |
| Max. Insertion Loss     | IL        | 1.0                                  | dB   |
| Max. Extinction Ratio   | ER        | 3                                    | dB   |
| Min. Return Loss        | RL        | 50                                   | dB   |
| Max. Optical Power (CW) | P         | 500                                  | mW   |
| Max. Tensile Load       |           | 5                                    | N    |
| Fiber Type              |           | PM780-HP Panda fiber or HI 780 fiber | -    |
| Operating Temperature   | T         | -5~70                                | °C   |
| Storage Temperature     | T         | -40~85                               | °C   |
| Package Dimension       |           | $\Phi 5.5 \times L35$                | 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, slow axis is default aligned to the connector key.

### Drawing:



### Ordering Information (Part Number):

| ILD <sub>P</sub> - <b>WWW</b> - <b>FF</b> - <b>J</b> - <b>LL</b> - <b>CC</b> |                                              |                      |              |              |
|------------------------------------------------------------------------------|----------------------------------------------|----------------------|--------------|--------------|
| <b>WWW</b>                                                                   | <b>FF</b>                                    | <b>J</b>             | <b>LL</b>    | <b>CC</b>    |
| Wavelength                                                                   | Fiber Type (Input/Output)                    | Fiber Jacket         | Fiber Length | Connector    |
| 830 - 830nm                                                                  | PP - PM Panda fiber on input and output port | B - 250um Bare Fiber | 05 - 0.5m    | NE - None    |
| 840 - 840nm                                                                  | PH - PM Panda fiber on input port            | 9 - 900um Loose Tube | 10 - 1.0m    | FA - FC/APC  |
| 850 - 850nm                                                                  | HI 780 fiber on output port                  | 2 - 2.0mm Loose Tube | 15 - 1.5m    | FU - FC/UPC  |
|                                                                              |                                              | 3 - 3.0mm Loose Tube | 20 - 2.0m    | SA - SC/APC  |
|                                                                              |                                              |                      | SS - Specify | SU - SU/APC  |
|                                                                              |                                              |                      |              | LA - LC/APC  |
|                                                                              |                                              |                      |              | LU - LC/UPC  |
|                                                                              |                                              |                      |              | SS - Specify |