

## SINGLE-MODE POLARIZATION INSENSITIVE ISOLATOR (1310, 1480, 1550, 1590nm)

### Specifications

Contact Ascentta with your custom specification needs.

| Parameter                  |                       | Unit    | Single Stage                                | Dual Stage |
|----------------------------|-----------------------|---------|---|------------|
| Wavelength                 |                       | nm      | 1310±20, or 1480±20, or 1550±20, or 1590±20 |            |
| Isolation (All SOP)        | ( $\lambda_c$ , 23°C) | Typ. dB | 42  | 50         |
|                            | (23°C)                | Min dB  | 32  | 44         |
| Insertion Loss (All SOP)   | ( $\lambda_c$ , 23°C) | Typ. dB | 0.3   | 0.4        |
|                            | (-5 to 70°C)          | Max dB  | 0.5   | 0.6        |
| PDL                        |                       | Max dB  | 0.1   | 0.1        |
| PMD                        |                       | Max ps  | 0.1/0.25*                                   | 0.05       |
| Return Loss (Input/Output) |                       | Min dB  | 55/55                                       |            |
| Optical Power Handling     |                       | mW      | 300   |            |
| Package Dimension          |                       | mm      | Φ5.5 x L35                                  |            |
| Operation Temperature      |                       | °C      | -5 to 70                                    |            |
| Storage Temperature        |                       | °C      | -40 to 85                                   |            |

\* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & PDL.

\* Max PMD is 0.25 for non-compensated single-stage parts.

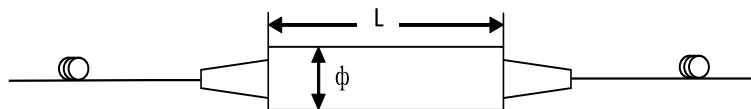
\* SOP=State Of Polarization

### Ordering Information

Contact Ascentta with your custom configuration needs.

| IS | Stages                         | Wavelength   | Fiber Type   | Fiber Length   | Connector  |
|----|--------------------------------|--|--|--|--|
| IS | S=single stage<br>D=dual stage | 10=1064nm<br>13=1310nm<br>14=1480nm<br>15=1550nm<br>159=1590nm | B=SMF-28 250um<br>L=SMF-28 900um<br>H1=HI-1060<br>X=Others | 10=1.0m<br>15=1.5m<br>20=2.0m<br>30=3.0m<br><br>X=Others | NE=None<br>FA=FC/APC<br>FC=FC/PC<br>SA=SC/APC<br>SC=SC/PC<br>ST=ST/PC<br>LA=LC/APC<br>LC=LC/PC<br><br>X=Others |
|    |                                | X=Others   |  |  |  |
|    |                                |  |  |  |  |
|    |                                |  |  |  |  |
|    |                                |  |  |  |  |

### Package Dimensions



Contact Ascentta for all your custom design needs.

## SINGLE-MODE POLARIZATION INSENSITIVE ISOLATOR (2000nm)

### Specifications

Contact Ascentta with your custom specification needs.

| Parameter   |     | Unit | Single Stage          | Dual Stage |
|---|-----|------|-----------------------|------------|
| Wavelength  |     | nm   | 2000                  |            |
| Isolation ( $\lambda_c \pm 50\text{nm}$ , 23°C, All SOP)      | Min | dB   | 16                    | 35         |
| Insertion Loss ( $\lambda_c \pm 20\text{nm}$ , 23°C, All SOP) | Max | dB   | 1.3                   | 1.5        |
| PDL   | Max | dB   | 0.2                   |            |
| Return Loss (Input/Output)                                    | Min | dB   | 50/50                 |            |
| Optical Power Handling  | Max | W    | 1, or 2               |            |
| Peak Power for ns Pulse                                       | Max | kW   | 10                    |            |
| Package Dimension   |     | mm   | $\Phi 5.5 \times L35$ |            |
| Operation Temperature   |     | °C   | -5 to 70              |            |
| Storage Temperature   |     | °C   | -40 to 85             |            |

\* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & PDL.

\* Max PMD is 0.25 for non-compensated single-stage parts.

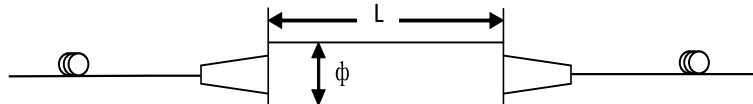
\* SOP=State Of Polarization

### Ordering Information

Contact Ascentta with your custom configuration needs.

| IS       | Stages                         | Wavelength | Fiber Type                     | Fiber Length | Connector | Power | Power Type         |
|----------|--------------------------------|------------|--------------------------------|--------------|-----------|-------|--------------------|
| IS       | S=single stage                 | 10=1064nm  | B=SMF-28 250um                 | 10=1.0m      | NE=None   | 1W=1W | Pulse=Pulse        |
|          | D=dual stage                   | 13=1310nm  | L=SMF-28 900um                 | 15=1.5m      | FA=FC/APC | 2W=2W | CW=Continuous Wave |
|          |                                | 14=1480nm  | NSM1950B=Nufern SM 1950, 250um | 20=2.0m      | FC=FC/PC  |       |                    |
|          |                                | 15=1550nm  |                                | 30=3.0m      | SA=SC/APC |       |                    |
|          |                                | 159=1590nm |                                | ST=ST/PC     |           |       |                    |
| X=Others | NSM1950L=Nufern SM 1950, 900um | X=Others   | LA=LC/APC                      | LC=LC/PC     |           |       |                    |
|          |                                | X=Others   | X=Others                       |              |           |       |                    |

### Package Dimensions



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## SINGLE-MODE POLARIZATION INSENSITIVE ISOLATOR (1064nm)

### Specifications

Contact Ascentta with your custom specification needs.

| Parameter                  |                             | Unit | Single Stage | Dual Stage |
|----------------------------|-----------------------------|------|--------------|------------|
| Wavelength                 |                             | nm   | 1064±5       | 1064±5     |
| Isolation (All SOP)        | ( $\lambda_c$ , 23°C)       | Typ. | dB           | 40         |
|                            | ( $\lambda_c$ , 23°C)       | Min  | dB           | 30         |
| Insertion Loss (All SOP)   | ( $\lambda_c$ , 23°C)       | Typ. | dB           | 1.5        |
|                            | ( $\lambda_c$ , -5 to 70°C) | Max  | dB           | 2.0        |
| PDL                        |                             | Max  | dB           | 0.15       |
| PMD                        |                             | Max  | ps           | 0.05       |
| Return Loss (Input/Output) |                             | Min  | dB           | 50         |
| Optical Power Handling     |                             | mW   | 300          |            |
| Fiber Type                 |                             |      | Hi 1060      |            |
| Package Dimension          |                             | mm   | Φ5.5 x L35   |            |
| Operation Temperature      |                             | °C   | -5 to 70     |            |
| Storage Temperature        |                             | °C   | -40 to 85    |            |

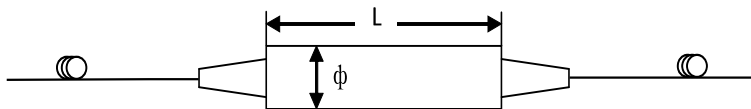
\* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & PDL.  
\* SOP=State Of Polarization

### Ordering Information

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| IS | Stages                         | Wavelength   | Fiber Type   | Fiber Length   | Connector  |
|----|--------------------------------|--|--|--|--|
| IS | S=single stage<br>D=dual stage | 10=1064nm<br>13=1310nm<br>14=1480nm<br>15=1550nm<br>159=1590nm | B=SMF-28 250um<br>L=SMF-28 900um<br>H1=HI-1060<br>X=Others | 10=1.0m<br>15=1.5m<br>20=2.0m<br>30=3.0m<br><br>X=Others | NE=None<br>FA=FC/APC<br>FC=FC/PC<br>SA=SC/APC<br>SC=SC/PC<br>ST=ST/PC<br>LA=LC/APC<br>LC=LC/PC<br><br>X=Others |

### Package Dimensions



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## SINGLE-MODE POLARIZATION INSENSITIVE ISOLATOR ARRAY (1310, 1480, 1550, 1590nm)

### Specifications

Contact Ascentta with your custom specification needs.

| Parameter                  |                       | Unit    | Single Stage                                | Dual Stage |
|----------------------------|-----------------------|---------|---|------------|
| Wavelength                 |                       | nm      | 1310±20, or 1480±20, or 1550±20, or 1590±20 |            |
| Isolation (All SOP)        | ( $\lambda_c$ , 23°C) | Typ. dB | 42  | 50         |
|                            | (23°C)                | Min dB  | 32  | 44         |
| Insertion Loss (All SOP)   | ( $\lambda_c$ , 23°C) | Typ. dB | 0.3   | 0.4        |
|                            | (-5 to 70°C)          | Max dB  | 0.5   | 0.6        |
| PDL                        |                       | Max dB  | 0.1   | 0.1        |
| PMD                        |                       | Max ps  | 0.1/0.25*                                   | 0.1        |
| Return Loss (Input/Output) |                       | Min dB  | 55/55                                       | 55/55      |
| Optical Power Handling     |                       | mW      | 300   |            |
| Package Dimension          |                       | mm      | Φ5.5 x L35                                  |            |
| Operation Temperature      |                       | °C      | -5 to 70                                    |            |
| Storage Temperature        |                       | °C      | -40 to 85                                   |            |

\* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & PDL.

\* Max PMD is 0.25 for non-compensated single-stage parts.

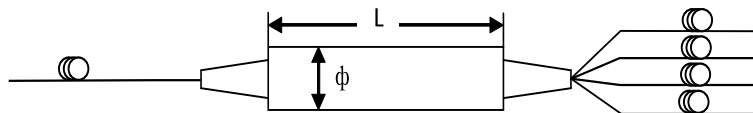
\* SOP=State Of Polarization

### Ordering Information

Contact Ascentta with your custom configuration needs.

| IS  | Array                      | Stages                         | Wavelength   | Fiber Type                                     | Fiber Length                             | Connector  |
|-----|----------------------------|--------------------------------|--|--|--|--|
| AIS | 12=1x2<br>13=1x3<br>14=1x4 | S=single stage<br>D=dual stage | 10=1064nm<br>13=1310nm<br>14=1480nm<br>15=1550nm<br>159=1590nm | B=SMF-28 250um<br>L=SMF-28 900um<br>H1=HI-1060 | 10=1.0m<br>15=1.5m<br>20=2.0m<br>30=3.0m | NE=None<br>FA=FC/APC<br>FC=FC/PC<br>SA=SC/APC<br>SC=SC/PC<br>ST=ST/PC<br>LA=LC/APC<br>LC=LC/PC |
|     | X=Others                   |                                | X=Others   | X=Others                                       | X=Others                                 |  |

### Package Dimensions



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