

## Isolator Hybrid: Tap Coupler + Isolator (1310, 1550)

### Specifications

Contact Hengyan Photonics with your custom specification needs.

| Parameter              |                                             |                               |      | Unit | Single Stage        | Dual Stage          |
|------------------------|---------------------------------------------|-------------------------------|------|------|---------------------|---------------------|
| Signal Channel         | Wavelength                                  |                               |      | nm   | 1310±20, or 1550±20 | 1310±20, or 1550±30 |
|                        | Isolation (All SOP)                         | ( $\lambda_c$ 23°C)           | Typ. | dB   | 35                  | 50                  |
|                        |                                             | ( $\lambda_c \pm 20$ nm 23°C) | Min  | dB   | 30                  | 44                  |
|                        | Insertion Loss ( $\lambda_c$ 23°C, All SOP) |                               | Typ. | dB   | 0.6                 | 0.8                 |
|                        |                                             |                               | Max  | dB   | 0.8                 | 1.0                 |
| Tap Port               | Insertion Loss (23°C, All SOP)              | 2%                            | -    | dB   | 16.2 ~ 18.0         |                     |
|                        |                                             | 5%                            | -    | dB   | 12.1 ~ 14.0         |                     |
|                        | Ripple                                      |                               | Max  | dB   | 0.5                 |                     |
| PDL                    |                                             |                               | Max  | dB   | 0.15                |                     |
| PMD                    |                                             |                               | Max  | ps   | 0.1/0.25^           | 0.1                 |
| Return Loss            |                                             |                               | Min  | dB   | 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.

\* SOP=State Of Polarization

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

### Ordering Information

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| TISO | Wavelength | Stages                         | Tap Ratio | Fiber Type       | Fiber Length | Connector |
|------|------------|--------------------------------|-----------|------------------|--------------|-----------|
| TISO | 13=1310nm  | S=Single Stage<br>D=Dual Stage | 01=1%     | B=SMF-28, 250um  | 10=1.0m      | NE=None   |
|      | 15=1550nm  |                                | 02=2%     | L= SMF-28, 900um | 15=1.5m      | FA=FC/APC |
|      |            |                                | 03=3%     |                  | 20=2.0m      | FC=FC/PC  |
|      |            |                                | 05=5%     |                  | 30=3.0m      | SA=SC/APC |
|      | X=Others   |                                | X=Others  | X=Others         | X=Others     | SC=SC/PC  |
|      |            |                                |           |                  |              | ST=ST/PC  |
|      |            |                                |           |                  |              | LA=LC/APC |
|      |            |                                |           |                  |              | LC=LC/PC  |
|      |            |                                |           |                  |              | X=Others  |

### Package Dimensions

