

## Mini Polarization Insensitive Tap Isolator Hybrid

### Features

Low PDL  
 Low Insertion Loss  
 Low Cost  
 Small Package

### Applications

Compact Fiber Amplifiers  
 Compact Fiber Optic Systems  
 Fiber Lasers  
 Fiber Sensors

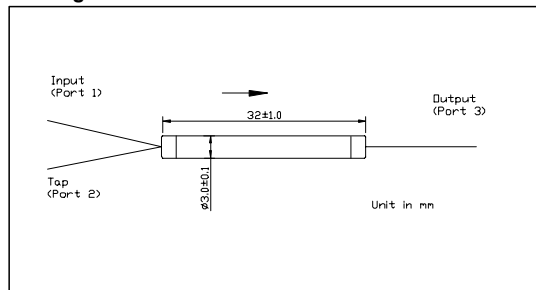
### Specifications

| Parameters                                    | Unit | Values                  |            |
|---|------|-------------------------|------------|
|   |      | Single Stage            | Dual Stage |
| Stage   |      | Single Stage            | Dual Stage |
| Center Wavelength                             | nm   | 1310 or 1550            |            |
| Operating Wavelength Range                    | nm   | ±20                     |            |
| Tap Ratio (Port 1 to Port 2)                  | %    | 1+/-0.2, 2+/-0.4, 5+/-1 |            |
| Typ. Peak Isolation                           | dB   | 40                      | 55         |
| Min. Isolation at 23°C                        | dB   | 30                      | 45         |
| Typ. Excess Loss at 23°C                      | dB   | 0.5                     | 0.6        |
| Max. Excess Loss at -5°C-70°C                 | dB   | 0.7                     | 0.8        |
| Min. Return Loss (Input/Output)               | dB   | 55/55                   |            |
| Max. PDL (Port 1 to Port 3, Port 1 to Port 2) | dB   | 0.1                     | 0.15       |
| Max. PMD (Port 1 to Port 3)                   | ps   | 0.25                    | 0.1        |
| Min Directivity (Port 3 to Port 2)            | dB   | 55                      |            |
| Coupling Ratio & Tolerance                    | %    | 1.0±0.2                 |            |
| Max. Optical Power (CW)                       | mW   | 500                     |            |
| Max. Tensile Load                             | N    | 5                       |            |
| Fiber Type                                    | m    | SMF-28e Fiber           |            |
| Operating Temperature                         | °C   | -5 to +70               |            |
| Storage Temperature                           | °C   | -40 to +85              |            |

\*Above specifications are for device without connector.

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

### Package Dimensions



### Ordering Information

**AMTAPI-①①-②-③③-④-⑤⑤⑤-⑥⑥⑥-⑦**

①①: Wavelength  
 31 - 1310nm  
 48 - 1480nm  
 55 - 1550nm  
 SS - Specify

③③: Coupling Ratio  
 01 - 1/99  
 02 - 2/99  
 05 - 5/95  
 SS - Specify

②: Stage  
 S - Single Stage  
 D - Dual Stage

④: PMD  
 1 - Refer to above Spec.

⑤⑤⑤: Connector Type on Port 1, 2 & 3

1 - FC/UPC  
 2 - FC/APC  
 3 - SC/UPC  
 4 - SC/APC  
 N - None  
 S - Specify

⑥⑥⑥: Fiber Jacket on Port 1, 2 & 3

B - 250um Bare Fiber  
 L - 900um Loose Tube  
 S - Specify

⑦: Fiber Length

1 - 1.0m  
 S - Specify