

## Ultra-High Isolation Wavelength Division Multiplexer

### Features / Benefits



**Standalone Style**



**OTCP Style**

### FEATURES

- All Fiber Construction
- High Reliability
- Outstanding Optical Performance
- Optimized for Operation at 1310nm and 1550nm
- Optical Isolation is 45dB minimum over  $\pm 20$ nm Windows Centered on 1310nm and 1550nm.
- Low Insertion Loss

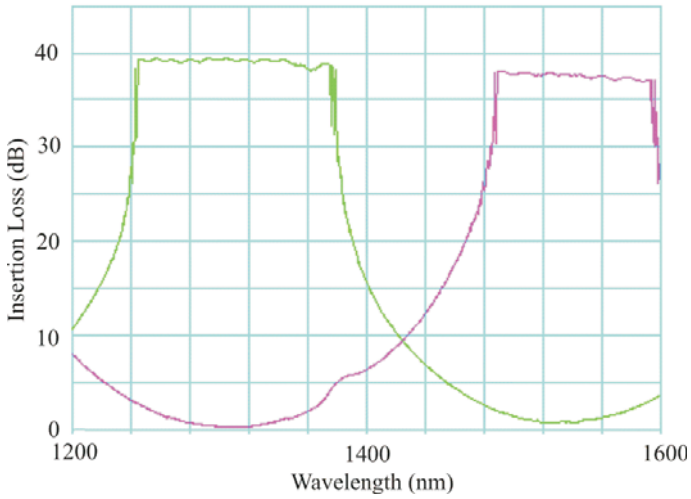
### Specifications

| Parameter                         | Specification                      | Units            |
|-----------------------------------|------------------------------------|------------------|
| Center Wavelength ( $\lambda_c$ ) | 1310 or 1550                       | nm               |
| Bandwidth                         | $\pm 20$                           | nm               |
| Max. Insertion Loss               | 1.1                                | dB               |
| Min. Wavelength Isolation         | 45                                 | dB               |
| Typ. Isolation in 10 nm BW        | 60                                 | dB               |
| Max. Polarization Stability       | 0.2                                | dB               |
| Min. Directivity                  | 55                                 | dB               |
| Max. Temperature Coefficient      | 0.004                              | dB/ $^{\circ}$ C |
| Operating Temperature             | -20 to +75                         | $^{\circ}$ C     |
| Storage Temperature               | -40 to +85                         | $^{\circ}$ C     |
| Package Dimensions                |                                    |                  |
| Standalone Dimensions             | 100 x 80 x 10                      | mm               |
| OTCP Dimensions                   | 127 x 203 x 32<br>5.0 x 8.0 x 1.27 | mm<br>in.        |

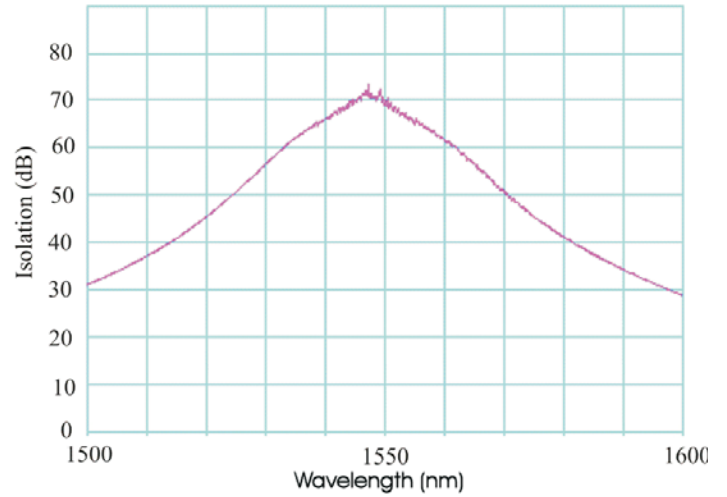
### APPLICATIONS

- Multiplexing/Demultiplexing
- Fiber Optic CATV
- Fiber Optic Test Equipment
- Bi-directional Communication Over a Single Fiber
- Double System Capacity Over a Single Fiber
- Line Relay Equipment

Wavelength Dependence of Insertion Loss



Isolation near 1550nm



### Ordering Information

#### OTCP Housing

|                  |                  |
|------------------|------------------|
| OTWDM-35U-1X2-SA | SC/APC connector |
| OTWDM-35U-1X2-FA | FC/APC connector |

#### Standalone

|                |                  |
|----------------|------------------|
| WDM-35U-1X2-SA | SC/APC connector |
| WDM-35U-1X2-FA | FC/APC connector |

Cable Diameter = 2mm  
 Cable Length = 0.5 Meter  
 Package = 100 x 80 x 10mm