Item #: W980S330F1B  
SN: T005329  

Wavelengths:  
Channel 1: 980 nm  
Channel 2: 1310 nm  

Bandwidth: ±15 nm  
Max Power Level: 300 mW  
Fiber Type: HI1060 FLEX

<table>
<thead>
<tr>
<th>Color</th>
<th>Design Wavelength</th>
<th>Transmission</th>
<th>Insertion Loss</th>
<th>Isolation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel 1</td>
<td>Infrared</td>
<td>980 nm</td>
<td>97.50%</td>
<td>0.11 dB</td>
</tr>
<tr>
<td>Channel 2</td>
<td>Infrared</td>
<td>1310 nm</td>
<td>98.40%</td>
<td>0.07 dB</td>
</tr>
</tbody>
</table>

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<tr>
<th>Channel 1</th>
<th>Channel 2</th>
<th>Bandwidth</th>
<th>Insertion Loss</th>
<th>Isolation</th>
</tr>
</thead>
<tbody>
<tr>
<td>965-995 nm</td>
<td>1295-1325 nm</td>
<td>0.16 dB</td>
<td>16.2 dB</td>
<td></td>
</tr>
<tr>
<td>1295-1325 nm</td>
<td>1295-1325 nm</td>
<td>0.07 dB</td>
<td>21.9 dB</td>
<td></td>
</tr>
</tbody>
</table>

- **Combines Test Data at Target Wavelength**:  
  - **Color**: Infrared  
  - **Design Wavelength**: Channel 1: 980 nm, Channel 2: 1310 nm  
  - **Transmission**: Channel 1: 97.50%, Channel 2: 98.40%  
  - **Insertion Loss**: Channel 1: 0.11 dB, Channel 2: 0.07 dB  
  - **Isolation**: Channel 1: 18.10 dB, Channel 2: 26.30 dB

- **Combines Test Data over Bandwidth**:  
  - **Bandwidth**: Channel 1: 965-995 nm, Channel 2: 1295-1325 nm  
  - **Insertion Loss**: Channel 1: 0.16 dB, Channel 2: 0.07 dB  
  - **Isolation**: Channel 1: 16.2 dB, Channel 2: 21.9 dB

- **All values are measured at room temperature without connectors.**
- **Calculated from measurement insertion loss data below.**
- **Insertion loss is the ratio of the input power to the output power for each leg of the wavelength combiner.**
- **Isolation represents the minimum crosstalk between channels over the bandwidth.**
- **Data shows worst case measurement over bandwidth.**

### Channel Test Data

- **Channel 1 Test Data** (Infrared, 980 nm)
  - Transmission (%): 95 to 100
  - Wavelength (nm): 950 to 1010

- **Channel 2 Test Data** (Infrared, 1310 nm)
  - Transmission (%): 95 to 100
  - Wavelength (nm): 1280 to 1340
This wavelength combiner operation is only guaranteed around each channel’s bandwidth as defined by the colored regions above, Thorlabs displays a wider wavelength range to provide insight into how this particular device would perform if used outside its guaranteed operating range. The out-of-band performance can vary from device to device.

Verified by: ____________________