Item #: RB32F1  
SN: T006502

Wavelengths:
- Channel 1: 473 nm
- Channel 2: 633 nm

Bandwidth: ±5 nm
Max Power Level: 50 mW
Fiber Type: 460HP

### Combiner Test Data at Target Wavelength

<table>
<thead>
<tr>
<th>Color</th>
<th>Channel 1</th>
<th>Channel 2</th>
<th>Design Wavelength</th>
<th>Transmission (%)</th>
<th>Insertion Loss (dB)</th>
<th>Isolation (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Blue</td>
<td>Red</td>
<td>473 nm</td>
<td>96.83%</td>
<td>0.14 dB</td>
<td>20.30 dB</td>
</tr>
<tr>
<td></td>
<td>633 nm</td>
<td></td>
<td></td>
<td>97.27%</td>
<td>0.12 dB</td>
<td>19.70 dB</td>
</tr>
</tbody>
</table>

### Combiner Test Data over Bandwidth

<table>
<thead>
<tr>
<th>Bandwidth</th>
<th>Column 1</th>
<th>Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel 1</td>
<td>468-478 nm</td>
<td>628-638 nm</td>
</tr>
<tr>
<td>Insertion Loss (%)</td>
<td>0.17 dB</td>
<td>0.15 dB</td>
</tr>
<tr>
<td>Isolation (dB)</td>
<td>17.8 dB</td>
<td>16.8 dB</td>
</tr>
</tbody>
</table>

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

**Channel Test Data**

**Channel 1**

- Transmission (%)

**Channel 2**

- Transmission (%)
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: ____________________