

**WIDEBAND FILTER WDM MODULE**  
**(1530~1610nm/1410~1490nm)**

**Specification Review Data Sheet**

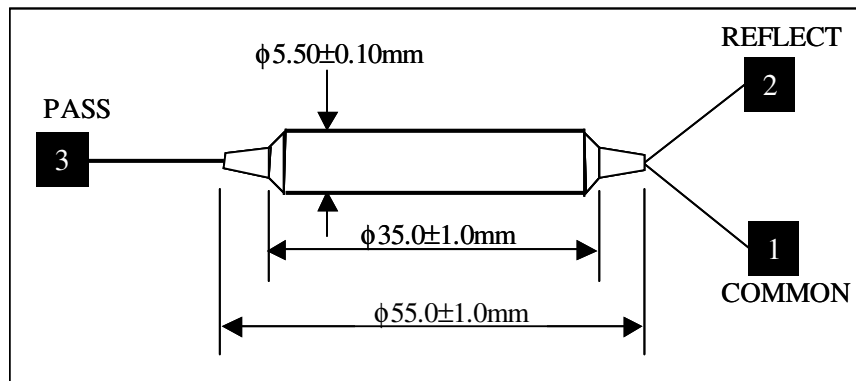
|                           |                           |                    |          |
|---------------------------|---------------------------|--------------------|----------|
| <b>Spec. Review No.</b>   | SR0681                    |                    |          |
| <b>Revision</b>           | 01                        | <b>Review Date</b> | 12/16/04 |
| <b>Customer</b>           |                           |                    |          |
| <b>Description</b>        | FWDM, 1530~1610/1410~1490 |                    |          |
| <b>Customer P/N</b>       |                           |                    |          |
| <b>Offer P/N</b>          | FWDM-5548-N-B-1           |                    |          |
| <b>Reference Document</b> |                           |                    |          |

**1.0 Environmental Specifications**

| Parameter                   | Specification | Units | Offer Spec |
|-----------------------------|---------------|-------|------------|
| Operating Temperature Range | ----          | °C    | -5 to 70   |
| Storage Temperature Range   | ----          | °C    | -40 to 85  |
| Fiber Pull Force            | ----          | N     | 5          |

**2.0 Mechanical Module Specifications**

| Parameter              | Specification | Units | Offer Spec        |
|------------------------|---------------|-------|-------------------|
| Package Dimensions     | ----          | mm    | φ5.5 x 55(Length) |
| Fiber Type             | ----          | ---   | SMF-28            |
| Fiber Length           | ----          | m     | >1.0              |
| Optical Connector Type | ----          | ---   | None              |



**Packaging Dimension**

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| <b>Customer P/N</b>       |                           |                    |          |
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| <b>Reference Document</b> |                           |                    |          |

**3.0 Optical Specifications<sup>1</sup>**

| <b>Parameter</b>           | <b>Specification</b> | <b>Units</b> | <b>Offer Spec</b> |
|----------------------------|----------------------|--------------|-------------------|
| Pass Band Wavelength       | 1530~1610            | nm           | 1530~1610         |
| Reflection Band Wavelength | 1410~1490            | nm           | 1410~1490         |
| IL over Pass Band          | 0.5                  | dB           | ≤ 0.5             |
| IL Ripple over Pass Band   | 0.2                  | dB           | ≤ 0.2             |
| Pass Band Isolation        | ---                  | dB           | ≥ 25              |
| IL over Reflection Band    | 0.5                  | dB           | ≤ 0.5             |
| Reflection Band Isolation  | ---                  | dB           | ≥ 13              |
| PDL                        | ≤ 0.1                | dB           | ≤ 0.1             |
| Directivity                | ---                  | dB           | ≥ 50              |
| Optical Return Loss        | ≥ 50                 | dB           | ≥ 50              |
| Power Handling (Max)       | 1500                 | mW           | 1500              |

<sup>1</sup> Optical specifications are given over all states of polarization and over environmental requirements of section 1.0

*Users may specify the expected specifications for our final specs evaluation and quotation confirmation; Customized modules are available upon request!*