

Thin-Film 1310+1490/1550 Wavelength Division Multiplexer

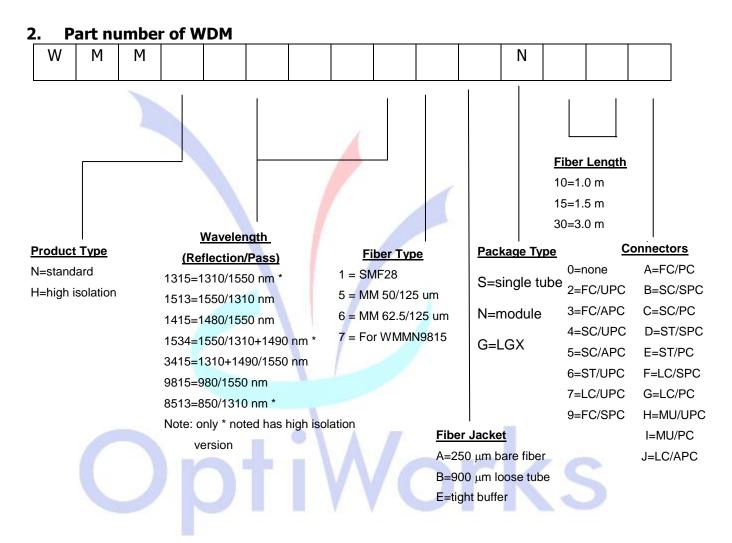
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This document proposes the specification of the Thin-Film Wavelength Division Multiplexer that transmits light at 1550 nm and reflects light at 1310 and 1490 nm.

1. Specifications

(All parameters are referenced without connectors. Typical connector loss 0.25 dB/pair)

| Parameters | | Specifications | Unit |
|--------------------------------------------------|-------------------|-------------------------|------|
| Transmitted Band | | 1535-1565 | nm |
| Reflected Band | | 1270-1350 and 1480-1500 | nm |
| Passband Insertion Loss | | <u>≤</u> 0.8 | dB |
| Reflected band Insertion Loss | | <u><</u> 0.6 | dB |
| Insertion loss uniformity over Transmitted band | | <u>≤</u> 0.2 | dB |
| Insertion loss uniformity over Reflected band | | ≤ 0.2 | dB |
| Isolation in Transmission against Reflected band | | <u>≥</u> 30 | dB |
| Isolation in Reflection against Transmitted Band | | <u>≥</u> 15 | dB |
| PDL | | <u>≤</u> 0.1 | dB |
| PMD | | <u>≤</u> 0.1 | ps |
| Return Loss | | ≥ 50 | dB |
| Directivity | | <u>≥</u> 55 | dB |
| Optical Power Handling | | > 500 | mW |
| Operating Temperature | | 0 to 70 | °C |
| Storage Temperature | | -40 to 85 | °C |
| Fiber Type | | Corning SMF 28 | |
| Packago Dimonsion (oveluding strain relief) | Bare Fiber | φ 5.5 x 35 typical | mm |
| Package Dimension (excluding strain relief) 9 | 000 μm Loose Tube | φ 5.5 x 40 typical | |



3. size reference

NA

4. RoHS appliance. GR-1209-Core, GR-1221-Core Generic Requirement and test standard.

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Optiworks Technologies Co., Ltd.

USA
OptiWorks, Inc. 47211 Bayside Pkwy.
Fremont, CA 94538
510-770-8266/510-770-8291
sales@optiworks.com

China - Kunshan

Optiworks(Kunshan)Co.,Ltd.
NO.168Nanhe Road, ETDZ
Kunshan 215300. PRC
Tel: +86 (512) 57630880-23305
contact@optiworks.com

China - Shanghai
Optiworks(Shanghai)Co.,Ltd.
Room 810-811,Changchun Business Building No.953QinZhou North Road.
Shanghai, 200233 PRC

Tel: +86 (21) 6485-8787 contact@optiworks.com