

M E L  
B Y  
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RAYCORE

Q3-S245 V2.1E

Specification of FWDM  
1310/1490/1550nm for LGX Module

Part Number: AWDL-Foxx-00000-00

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### Features

- Low Insertion Loss
- High Isolation
- Low PDL
- Good channel-to-channel uniformity
- Wide Operating Wavelength:
- Wide Operating Temperature:
- From -40°C to 85°C
- High Reliability and Stability

### Applications

- CWDM System
- PON Networks
- CATV Links

### Compliance

- Telcordia GR-1209-CORE-2001
- Telcordia GR-1221-CORE-1999
- RoHS



### Specifications

| Parameters                         | Specifications                     |                                    |                                    |                                    |
|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Part Number                        | AWDL-F0A <del>x</del><br>-00000-00 | AWDL-F0B <del>x</del><br>-00000-00 | AWDL-F0A <del>x</del><br>-00000-00 | AWDL-F0B <del>x</del><br>-00000-00 |
| Operating Wavelength (nm)          | T1550/R1310 &<br>1490              | T1310 &<br>1490/R1550              | T1310/R1490 &<br>1550              | T1490 &<br>1550/R1310              |
| Transmission Wavelength Range (nm) | 1550+/-10                          | 1310+/-40 &<br>1490+/-10           | 1310 +/-40                         | 1490+/-10 &<br>1550+/-10           |
| Reflection Wavelength Range (nm)   | 1310+/-40 &<br>1490+/-10           | 1550+/-10                          | 1490+/-10 &<br>1550+/-10           | 1310+/-40                          |
| Transmission IL (dB)               | 0.8 (0.6 Typ.)                     |                                    |                                    |                                    |
| Reflection IL (dB)                 | 0.6 (0.4 Typ.)                     |                                    |                                    |                                    |
| Transmission Isolation (dB)        | 30                                 |                                    |                                    |                                    |
| Reflection Isolation (dB)          | 15                                 |                                    |                                    |                                    |
| Ripple (dB)                        | 0.3                                |                                    |                                    |                                    |
| PDL (dB)                           | 0.1                                |                                    |                                    |                                    |
| PMD (ps)                           | 0.1                                |                                    |                                    |                                    |
| RL (dB)                            | 45                                 |                                    |                                    |                                    |
| Directivity (dB)                   | 50                                 |                                    |                                    |                                    |
| Maximum Optical Power (mw)         | 500                                |                                    |                                    |                                    |
| Operating Temperature (°C)         | -40~85                             |                                    |                                    |                                    |
| Storage Temperature (°C)           | -40~85                             |                                    |                                    |                                    |
| LGX Module Dimension (mm)          | 28.5 x 129 x 150 (1 Slot)          |                                    |                                    |                                    |

**Notes:**

1. Specified without connectors.
2. Add an additional 0.3dB loss per connector.



Ordering Information

| Part Number        | Description  |
|--------------------|--|
| AWDL-FOAx-00000-00 | Optical Filter WDM for LGX Module<br>Transmission 1550nm<br>Reflection 1310nm & 1490nm<br>Connector type: 1= SC/UPC, 2= SC/APC |
| AWDLFOBx-00000-00  | Optical Filter WDM for LGX Module<br>Transmission 1310nm & 1490nm<br>Reflection 1550nm<br>Connector type: 1= SC/UPC, 2= SC/APC |
| AWDL-F0Ex-00000-00 | Optical Filter WDM for LGX Module<br>Transmission 1310nm<br>Reflection 1490nm & 1550nm<br>Connector type: 1= SC/UPC, 2= SC/APC |
| AWDL-F0Fx-00000-00 | Optical Filter WDM for LGX Module<br>Transmission 1490nm & 1550nm<br>Reflection 1310nm<br>Connector type: 1= SC/UPC, 2= SC/APC |

