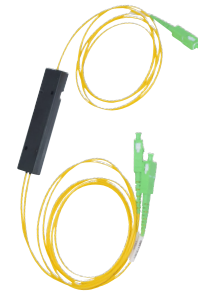


LBWD-02-F-3149-5561-PS-20-10-444 & LBWD-03-F-3149-5561-LG-444

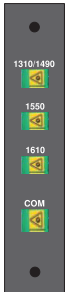
Technetix' GPON/RFoG WDM filter module is based on thin film technology and is designed to allow GPON wavelengths (1310 nm/1490 nm) and RFoG wavelengths (1550 nm/1610 nm) to coexist on a single fiber. This GPON/RFoG WDM filter features low loss, excellent port-to-port isolation and unparalleled reliability. It is available in two package options: a 0.4"H x 3.5"W x 0.8"D (1.0H x 9.0W x 2.0D cm) ABS package with fiber pigtailed for outside plant or subscriber use, and an LGX module with SC/APC connectors for use in the headend.

FEATURES

- Low insertion loss
- High isolation
- Low Polarization Dependent Loss (PDL)
- Compact design
- Good channel-to-channel uniformity
- Wide operating wavelength: 1260-1620 nm
- Operating temperature: -40°C to +70°C (-40°F to +158°F)
- High reliability and stability
- Applications
 - WDM systems
 - PON networks
 - CATV links
- Compliance
 - Telcordia GR-1209-CORE
 - Telcordia GR-1221-CORE
 - RoHS

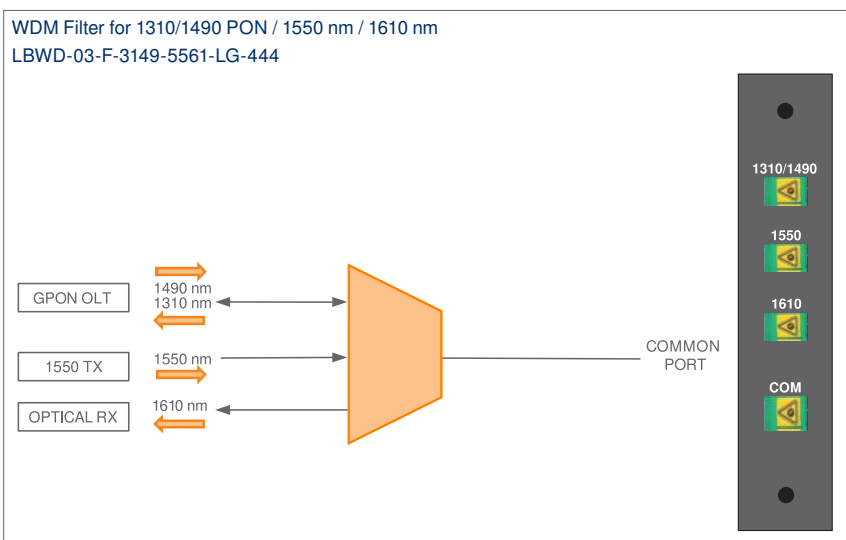
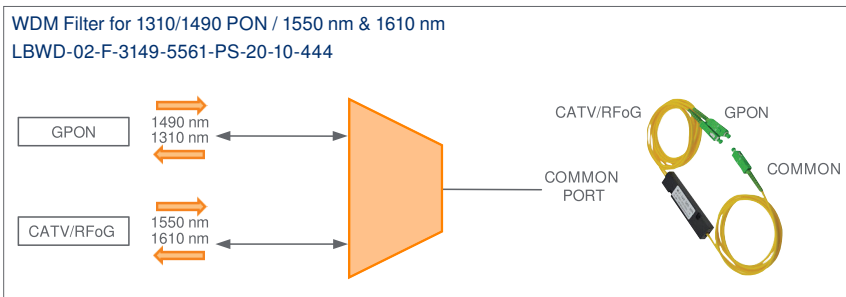


LBWD-02-F-3149-5561-PS-20-10-444 (top view)



LBWD-03-F-3149-5561-LG-444 (front view)

FUNCTIONAL SCHEMATICS



GPON/RFoG WDM filter modules

LBWD-02-F-3149-5561-PS-20-10-444 & LBWD-03-F-3149-5561-LG-444

SPECIFICATIONS

| Parameter | | Specification | |
|--|----------------------|--|--|
| | | LBWD-02 (ABS Package) | LBWD-03 (LGX Package) |
| Optical Parameters | | | |
| Optical Operating Wavelength | | 1260-1620 nm | |
| Number of Ports | | 2 + common | 3 + common |
| Center Wavelength | | 1310/1490 nm | |
| | | 1550 & 1610 nm | |
| Passband Region | GPON | 1290-1330 & 1480-1500 nm | |
| | 1550 Port | 1540-1560 nm | |
| | 1610 Port | 1600-1620 nm | |
| Fiber Type | | G657.A1 | |
| Insertion Loss | | ≤ 1.3 dB | |
| Isolation | Adjacent Channel | ≥ 30 dB | |
| | Non-Adjacent Channel | ≥ 45 dB | |
| Directivity | | ≥ 50 dB | |
| Ripple | | ≤ 0.5 dB | |
| Polarization Dependent Loss (PDL) | | ≤ 0.1 dB | |
| Polarization Mode Dispersion (PMD) | | ≤ 0.1 ps | |
| Optical Return Loss | | ≥ 45 dB | |
| Power, Environmental & Physical | | | |
| Optical Power (Max.) | | 500 mW | |
| Operating Temperature | | -40°C to +70°C (-40°F to +158°F) | |
| Storage Temperature | | -40°C to +85°C (-40°F to +185°F) | |
| Dimensions (H x W x D) | | 0.4"H x 3.5"W x 0.8"D (1.0H x 9.0W x 2.0D cm) | 6.3"H x 1.1"W x 5.1"D (16.0H x 2.9W x 13.0D cm) |
| Weight | | 1.8 oz (50.0 g) | 8.0 oz (226.8 g) |

NOTE:

(1) All specifications are based on the devices with connectors & guaranteed over wavelength & temperature

ORDERING INFORMATION

| Part # | Description |
|----------------------------------|---|
| LBWD-02-F-3149-5561-PS-20-10-444 | GPON/RFoG WDM filter module with 2 ports, GPON 1310/1490, RFoG 1550/1610 nm, in a 0.4"H x 3.5"W x 0.8"D (1.0H x 9.0W x 2.0D cm) ABS package with 2.0 mm 1 m long fiber pigtailed, SC/APC connectors |
| LBWD-03-F-3149-5561-LG-444 | GPON/RFoG WDM filter module with 3 ports, GPON 1310/1490, RFoG 1550 & 1610 nm, in a single-width customized LGX module, SC/APC connectors |