LGX-16-200 & LGX-20-200

DWDM Mux/Demux
LGX-Compatible Module
for 200 GHz

Key Features

- Low Insertion Loss
- Passive, Athermal Design
- Flat-Top Spectral Response
- Customizable Channel Plan and Spectral Characteristics
- Integrated Power Taps
- LGX-Compatible, Network-Ready

Applications

- HFC DWDM networks
- Long-Haul and Metropolitan DWDM Networks
- Single-Fiber Bi-Directional Networks

Product Overview

The LGX-16-200 and the LGX-20-200 Mux/Demuxes are the ideal solutions for Hybrid Fiber Coax DWDM applications, requiring 200 GHz channel spacing. Our acclaimed free-space diffraction grating technology gives the LGX-16-200 and the LGX-20-200 DWDM Mux/Demuxes industry-leading insertion loss, flat-top spectral response, and athermal operation - all in a form factor that easily snaps into LGX-compatible cabinets and enclosures. Our patented flat-top filter technology minimizes CSO distortion effects that can occur to analog signals in Gaussian filter profiles. Integrated power taps allow monitoring of incoming and outgoing signals in the primary fiber.

Product Specifications

(Valid over full temperature range, within specified passband, across all channels and polarizations)

Channel Count	16, 20[1)]
Channel Spacing	200 GHz
Channel Plan	Customer specified on ITU Grid[2)], C- or L-Band
Filter Shape	Flat[3)]
0.5-dB Filter Width	0.52 nm
Channel Passband	0.33 nm
Fiber Connector	SC/APC, others upon request
Operating Temperature Range (passive athermal design)	-5 to +65 °C
Dimensions	4.6" W x 5.1" H x 8.3" L

1) Other configurations available up to 32 channels
2) ITU offsets available for interleaved solutions
3) Several filter shapes available

Typical Insertion Loss (IL)	3.0 dB
IL Uniformity Across All Channels	≤1.0 dB
Ripple	≤0.5 dB
Adjacent Isolation	≥27 dB
Non-adjacent Isolation	≥35 dB
Polarization Dependent Loss (Typ.)	<0.35 dB
Optical Return Loss	>40 dB
Chromatic Dispersion	<5 ps/nm
Polarization Mode Dispersion	<0.1 ps/nm

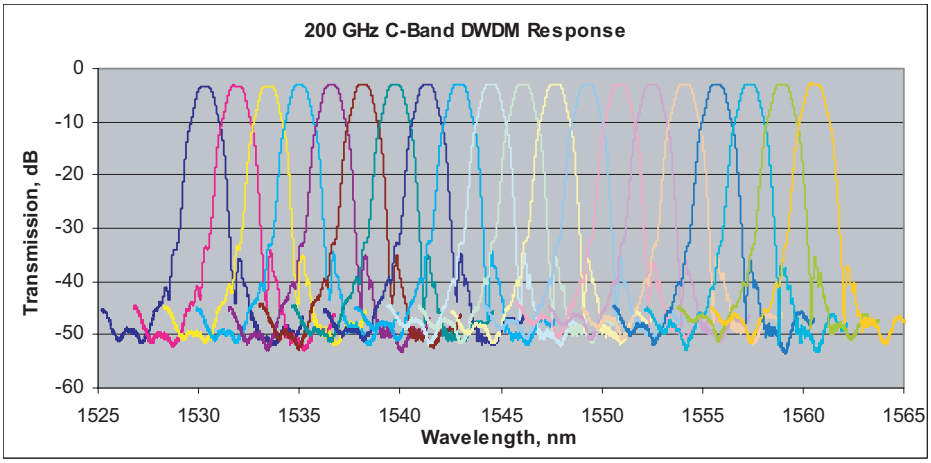
Confluent Photonics Corporation ⁞ 5 Industrial Way ⁞ Salem, NH 03079 ⁞ Tel: 603.893.4906 ⁞ Fax: 603.251.2432 ⁞ www.confluentphotonics.com

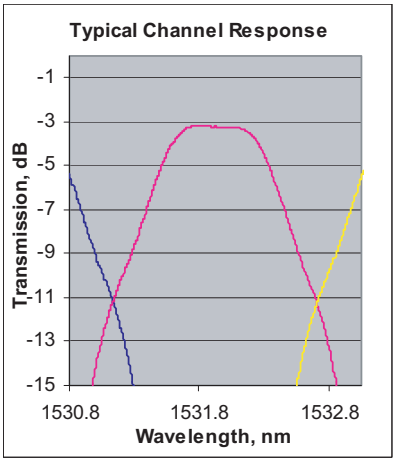
Confluent Photonics

LGX-16-200 & LGX-20-200

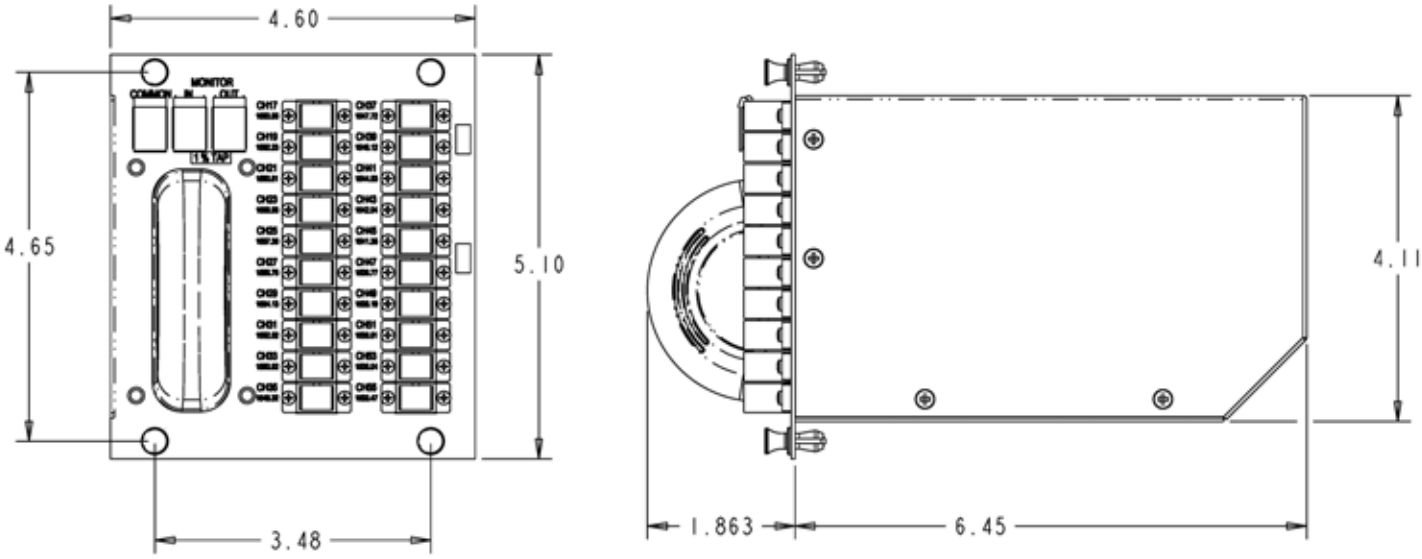
DWDM Mux/Demux
LGX-Compatible Module
for 200 GHz

Spectral Response





Mechanical Drawing (All dimensions in inches)



Confluent Photonics Corporation ⁞ 5 Industrial Way ⁞ Salem, NH 03079 ⁞ Tel: 603.893.4906 ⁞ Fax: 603.251.2432 ⁞ www.confluentphotonics.com