



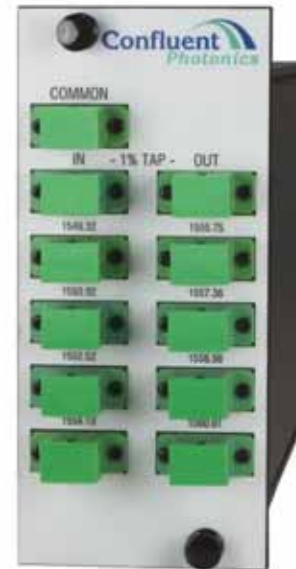
LGX-8-200 DWDM Mux/Demux LGX-Compatible Module for 200 GHz

Key Features

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

Applications

- HFC DWDM Networks
- Metropolitan DWDM Networks
- Single-Fiber Bi-Directional Networks



Product Overview

The LGX-8-200 Mux/Demux is an economical DWDM module for 200 GHz Hybrid Fiber Coax applications in a form factor that easily snaps into LGX-compatible mainframes. The flat-top filter shape minimizes CSO distortion effects that can occur to analog signals in Gaussian filter profiles. Integrated bi-directional power taps allow monitoring of incoming and outgoing signals in the primary fiber.

Product Specifications

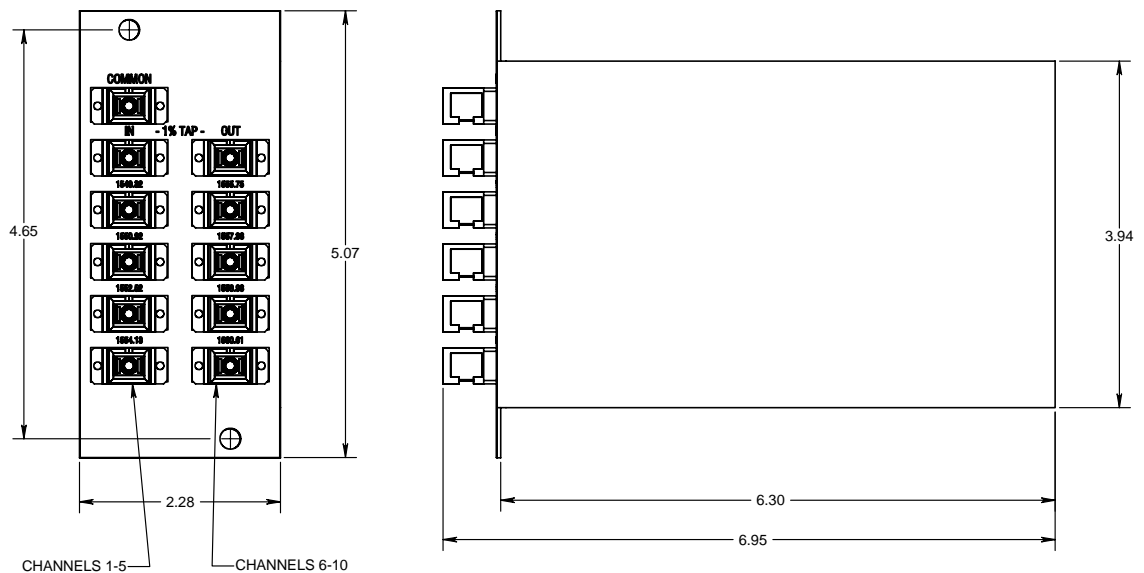
Channel Count	8	Maximum Insertion Loss (IL)	≤3.5 dB
Channel Spacing	200 GHz	IL Uniformity Across All Channels	≤1.0 dB
Channel Plan	Customer specified on ITU Grid ¹⁾ , C-Band	Ripple	≤0.5 dB
Channel Passband	≥0.5 nm	Adjacent Isolation	≥30 dB
Fiber Connector	SC/APC, others upon request	Non-adjacent Isolation	≥40 dB
Maximum Optical Power	300 mW	Polarization Dependent Loss (Typ.)	≤0.1 dB
Operating Temperature Range	-5 to +65 °C	Directivity	≥50 dB
Storage Temperature Range	-40 to +85 °C	Optical Return Loss	≥45 dB
Dimensions	2.3" W x 5.1" H x 5.0" L	Polarization Mode Dispersion	≤0.1 ps

¹⁾ See next page for available channels

Channel Plan (Choose any 8 contiguous channels)

ITU Channel	Wavelength (nm)	Frequency (THz)
21	1560.606	192.10
23	1558.983	192.30
25	1557.363	192.50
27	1555.747	192.70
29	1554.134	192.90
31	1552.524	193.10
33	1550.918	193.30
35	1549.315	193.50
37	1547.715	193.70
39	1546.119	193.90
41	1544.526	194.10
43	1542.936	194.30
45	1541.349	194.50
47	1539.766	194.70
49	1538.186	194.90
51	1536.609	195.10

Mechanical Drawing (All dimensions in inches)



Specifications subject to change without notice. Rev. 06/04
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