



RPM-16-200 & RPM-20-200

Rack Mountable Passive DWDM Mux/Demux for 200 GHz

Key Features

- Low Insertion Loss
- Passive, Athermal Design
- Flat-Top Spectral Response
- Customized Channel Plans and Spectral Characteristics
- Shelf-Level, Network Ready

Applications

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



Product Overview

The RPM-16-200 and the RPM-20-200 Mux/Demuxes are network-ready, 2RU form factor solutions for Hybrid Fiber Coax DWDM applications, requiring 200 GHz channel spacing. Our acclaimed free-space diffraction grating technology gives the RPM-16-200 and the RPM-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)

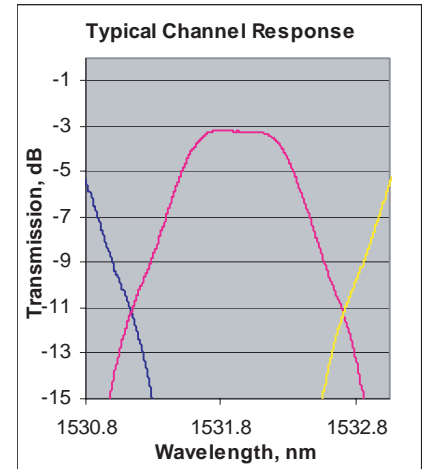
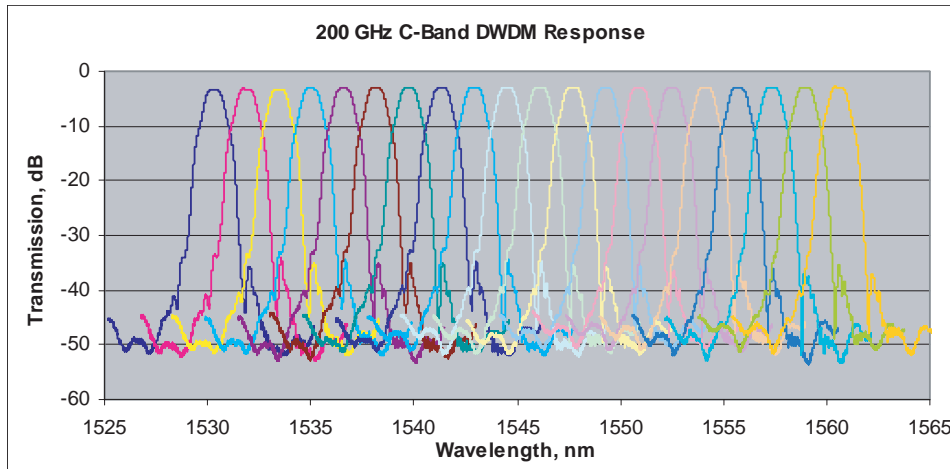
Channel Count	16, 20 ¹⁾	Typical Insertion Loss (IL)	3.0 dB
Channel Spacing	200 GHz	IL Uniformity Across All Channels	≤1.0 dB
Channel Plan	Customer specified on ITU Grid ²⁾ , C- or L-Band	Ripple	≤0.5 dB
Filter Shape	Flat ³⁾	Adjacent Isolation	≥27 dB
0.5-dB Filter Width	0.52 nm	Non-adjacent Isolation	≥35 dB
Channel Passband	0.33 nm	Polarization Dependent Loss (Typ.)	<0.35 dB
Fiber Connector	SC/APC, others upon request	Optical Return Loss	>40 dB
Power Requirements	None	Chromatic Dispersion	<5 ps/nm
Operating Temperature Range	-5 to +65 °C (passive athermal design)	Polarization Mode Dispersion	<0.1 ps/nm
Dimensions	16" W x 3.5" H x 12" D		

1) Other configurations available up to 52 channels

2) ITU offsets available for interleaved solutions

3) Several filter shapes available

Spectral Response



Monitor Tap Specifications

- Insertion loss contribution to primary fiber ≤ 0.2 dB
- Monitor port tap percentage of primary fiber = 1%