PowerFilter™
200 GHz Dense Wavelength Division Multiplexer Modules

Avanex's 200 GHz DWDM Modules are designed for use in advanced optical communications networks. They are available in various channel counts, including 4 and 8 channels at 200 GHz spacing. Based on dielectric thin-film filter technology and metal encapsulated micro-optics, these devices offer low insertion loss, high isolation and excellent temperature stability in a totally passive device. There is no epoxy in the optical path, and they can be interleaved to support 50 GHz or 100 GHz bi-directional systems. They are available using standard micro-optic technology or with MultiPort technology.[1]

1. Patents pending.

FEATURES

- Totally Passive
- No Epoxy in the Optical Path
- Low Insertion Loss and High Isolation
- Transport-Protocol-Independent
- Telcordia Qualified

MULTIPORT TECHNOLOGY

MultiPort technology uses innovative, submicron precision alignment to enable multiple, independent optical paths to pass through the same filter simultaneously. MultiPort technology dramatically reduces the overall installation costs of DWDM communications systems, while offering improved performance in the network.

APPLICATIONS

- Bi-Directional and Uni-Directional Networks
- Long Haul and Metropolitan Networks
- Cable Television Networks

KEY OPTICAL PARAMETERS

Parameters	Conditions 4200 Module	8200 Module
Wavelength Range	Available over C-Band and L-Band	
Channel Spacing	200 GHz	
Channel Passband	> ± 0.25 nm (> ± 32.5 GHz)	
Insertion Loss	< 2.7 dB	< 3.9 dB
Uniformity	< 1.0 dB	
Ripple	< 0.5 dB	
Adjacent Channel Isolation	> 25 dB	
Non-Adjacent Channel Isolation	> 40 dB	
Directivity	> 55 dB	
Return Loss	> 50 dB	
Polarization Dependent Loss	< 0.2 dB	
Polarization Mode Dispersion	< 0.15 ps	
Optical Power	< 25 dBm	
Thermal Drift	< 1.2 pm/°C	

KEY ENVIRONMENTAL PARAMETERS

Operating Temperature Range	-5 °C to 65 °C
Storage Temperature Range	-40 °C to 85 °C

DESIGN

Avanex's DWDM Modules are available in a variety of sizes. Please contact us for details.

Fiber Type: Corning SMF-28™ fiber

Connectors: SC/UPC

Fiber Pigtail Length: 1.0 m ± 0.1 m from fiber exit to connector end.

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