

Avanex's CWDM modules are designed for use in advanced optical communications networks. They are available in various channel counts, including 4, 6, or 8 channels at 20 nm spacing. CWDM modules allow the use of non-temperature controlled lasers and enable carriers to use more of the fiber spectrum. These devices, based on dielectric filters, are available using standard micro-optic technology or with MultiPort technology.¹

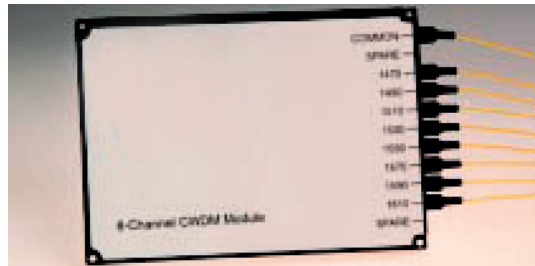
1. Patents pending.

FEATURES

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

APPLICATIONS

- Bi-Directional and Uni-Directional Networks
- Multiplexing and Demultiplexing in Metro and Access Networks



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 network performance.

KEY OPTICAL PARAMETERS

Parameter	Conditions		
	4- Channel Module	6-Channel Module	8-Channel Module
Channel Spacing		20 nm	
Channel Passband @0.5 dB		1470 nm –1610 nm	
Insertion Loss	< 2.5 dB	< 3.5 dB	<4.5 dB
Adjacent Channel Isolation		> 30 dB	
Directivity		> 55 dB	
Return Loss		> 45 dB	
Polarization Dependent Loss		< 0.15 dB	
Polarization Mode Dispersion		< 0.15 ps	
Optical Power		< 25 dBm	

KEY ENVIRONMENTAL PARAMETERS

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

PHYSICAL DIMENSIONS

Length	116.80 mm (4.60 in.)	133.40 mm (5.25 in.)
Width	76.20 mm (3.00 in.)	95.30 mm (3.75 in.)
Height	11.30 mm (0.44 in.)	12.30 mm (0.48 in.)

DESIGN

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

Fiber Type: Corning SMF-28™ fiber, 900 micron loose buffer or tight buffer.

Connectors: SC/UPC

Fiber Pigtail Length: 1.0 m ± 0.1 m from fiber exit to connector end. Other sizes available upon request.



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