

Dynamically Reconfigurable Optical Add-Drop Multiplexer/ Filter

Product Description

The Agiltron reconfigurable Add/Drop Multiplexer (ROADM) is designed for dynamically reconfigurable switching and routing applications in next generation optical communications networks. Based on a proprietary micro-integrated-optical **breakthrough**, Agiltron's ROADMs offer unprecedented dynamic channel reconfiguration performance of high speed, low loss, high reliability, ultra compactness, and low cost. The four-port ROADM selectively adds and drops any or all of the wavelength channels from a DWDM multi-channel stream simultaneously. The module can also be used as a dynamically programmable filter that block or attenuate any or all of the wavelength channels simultaneously. The modules cover C and L bands and handle up to 32 channels at both 50 GHz and 100 GHz spacings.



Features

- Solid-State High Speed
- Non-Mechanical
- Ultra-High Reliability
- Fail-Safe Latching
- Low Insertion Loss
- Wide Bandwidth
- Flat-Topped Profiles
- Low PDL, Ripple
- Ultra-Compact
- Low Cost
- Low Drive Power

Performance Specifications

WB Series	Min	Typical	Max	Unit
Operation Wavelength	C Band and L Band			
Channel Spacing	50		400	GHz
Insertion Loss/Channel ¹	0.2	0.3	0.32	dB
Add/Drop Insertion Loss	0.6	0.7	1.2	dB
Polarization Dependent Loss		0.2	0.3	dB
Extinction	20	25	50	dB
Polarization Mode Dispersion			0.2	ps
Return Loss	50			dB
Switching Time		50	100	µs
Operating Temperature	-5		70	°C
Optical Power		400		mW
Storage Temperature	-40		85	°C
Driving Voltage	0		5	V
Switch/VOA type	Solid-State Latching			
Electrical Connector type	Male MiniTek 57102-G02-14 compatible			
Fiber Type	Corning SMF28			
Package Dimension (4 channels)	(L)120x(W)90X(H)11			mm

1. Excluding connectors.

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Applications

- Configurable Add/Drop
- Dynamic Wavelength Management
- Dynamic Capacity provision

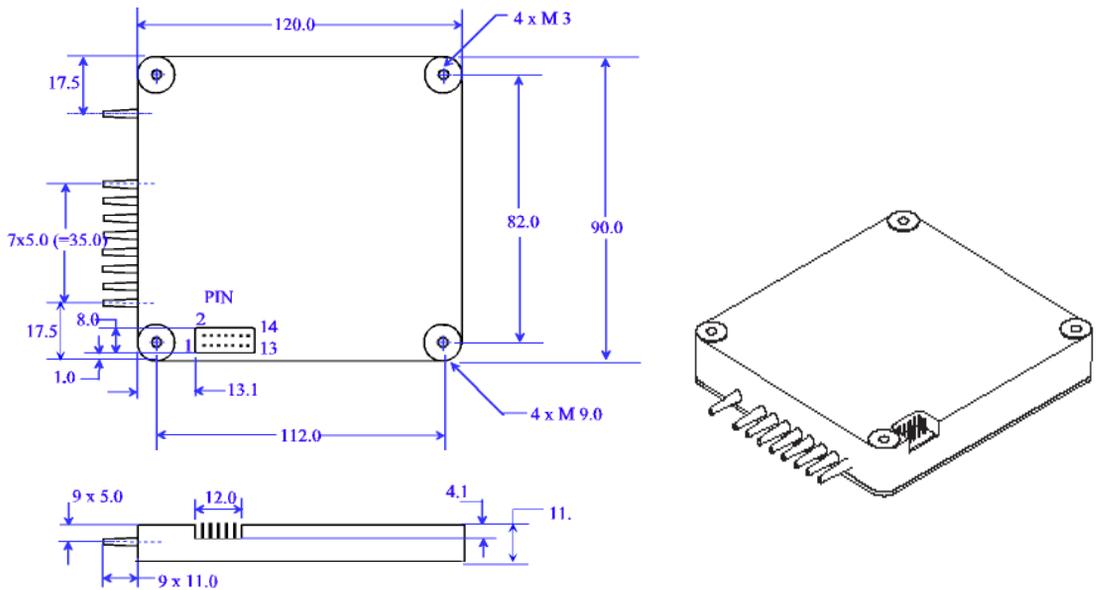


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Electrical Driving Requirements

Evaluation kit with TTL and RS-232 interface and Windows™ GUI is available

Mechanical Footprint Dimensions (mm)



Ordering Information

WB-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Channel	Wavelength	Spacing	Config	Fiber Type	Fiber Length	Connector Type
	Channel number = Special=00	C band = 1 L band = 2 Special = 0	50 G=5 100G =1 200G =2 300G =3 400G =4 Special = 0	Standard=1 Special=0	SMF-28 250um=1 SMF-28 900um=2 Special = 0	0.25m= 1 0.5m = 2 1.0 m= 3 Special=0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC = 7 Special = 0

