Dynamically Reconfigurable Optical Add-Drop Multiplexer

Product Description

The Agiltron reconfigurable Add/Drop Multiplexer (ROADM) is designed for 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 multi-port ROADM selectively adds and drops any or all of the wavelength channels from a DWDM multi-channel stream to a set of designated fiber ports, simultaneously. The module can also be integrated with EVOAs to individually attenuate optical power at any wavelength channels. The modules cover C and L bands and handle up to 32 channels at both 50 GHz and 100 GHz spacings.

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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

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Applications

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

Performance Specifications

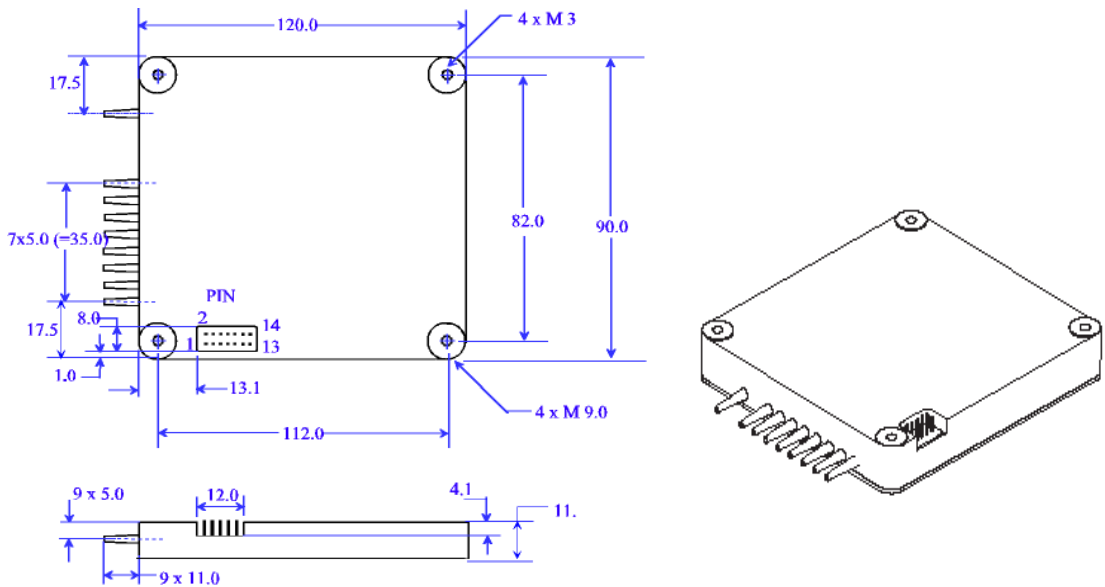| WB Series	Min	Typical	Max	Unit
Operation Wavelength	C Band and L Band			
Channel Spacing	50		400	GHz
Insertion Loss/Channel[1]	0.2	0.3	0.32	dB
Add/Drop Insertion Loss	0.6	0.7	1.2	dB
Polarization Dependent Loss		0.2	0.3	dB
Extinction	20	25	50	dB
Polarization Mode Dispersion			0.2	ps
Return Loss	50			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.

Dynamically Reconfigurable Optical Add-Drop Multiplexer/ Filter

Electrical Driving Requirements

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

Mechanical Footprint Dimensions (mm)

Ordering Information

RO-	Type	Wavelength	Spacing	Config	Fiber Type	Fiber Length	Connector Type
	Channels = 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

RoHS Compliant