

## Reconfigurable Wavelength Blocker

(patents pending)

#### **Product Description**

The Agiltron's Reconfigurable Wavelength Blocker (WB) is designed for reconfigurable switching and routing application in optical communication network. It attenuates and blocks any number of wavelengths in the C or L band at 50 GHz or 100 GHz channel spacing. Any or all of the wavelengths enter the device, and any selection of these wavelengths is simultaneously attenuated to any level, or the wavelengths are blocked altogether. The wavelength Blocker is remotely reconfigured to select other wavelengths, and each wavelength power level is independently controlled via an electric signal. This is a extremely cost effective subsystem for the next generation of optical communications networks.

#### **Features**

- Dynamic power equalization
- Flat and wide pass bands
- Low insertion loss and PDL
- Low dispersion
- C band or L band
- Ultra-high reliability
- Compact size
- Low cost
- Low power consumption

#### **Applications**

- Dynamic wavelength management
- Network protection and restoration
- Reconfigurable optical add/drop multiplexers
- Dynamic capacity provisioning

#### Performance Specifications

Parameter	Min	Typical	Max	Unit	
Wavelength Range	C Band or L Band				
Channel Sapcing	50GHz or 100GHz				
Channel Insertion Loss		5.0	6.0	dB	
Intra-Channel Ripple		0.3	0.4	dB	
Channel Uniformity		1.0	1.2	dB	
Polarization Dependent Loss (< 5 dB Attenuation)		0.3	0.4	dB	
Polarization Dependent Loss (5~10 dB Attenuation)		0.5	0.6	dB	
Tunable Attenuation Rang	0		20	dB	
Attenuation Step Size	0.1			dB	
Attenuation Accuracy			0.3	dB	
Extinction Ratio, delta between IL and Max Attenuation	36	40		dB	
Return Loss	35	40		dB	
Optical Power Handling			25	dBm	
Operating Temperature	-5		70	°C	
Storage Temperature	-40		80	°C	
Fiber Type	Corning SMF28				
Package Dimension (Max.)	(L)168x(W)88x(H)28			mm	

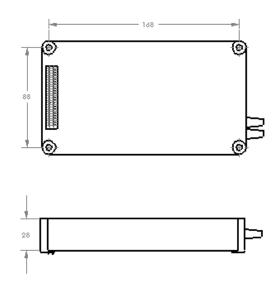


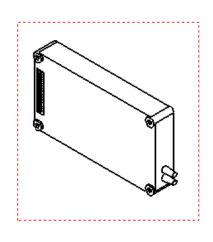
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### **Electrical Requirements**

RS-232 interface and WindowsTM GUI

### Mechanical Footprint Dimensions (mm)





#### **Ordering Information**

RCWB-	1 1						
	Configuration	Wavelength	ITU Channel	Spacing	Fiber Type	Fiber Length	Connector
		C band=C L band=L Special=0	40 channels=40 80 channels=80 Special=00		SMF-28 900um=3	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