Reconfigurable Wavelength Blocker

C, C+L, 50GHz, 100GHz, 10ms

DATASHEET

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Agiltron's Reconfigurable Wavelength Blocker (RCWB) is designed for reconfigurable switching and routing applications in optical communication networks. 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 a GUI.

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

Specifications

Parameter	Min	Typical	Max	Unit
Wavelength Range		C Band or L Band		
Channel Spacing		50GHz or 100GHz		
Insertion Loss [1]		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		50	dB
Attenuation Step Size	0.1			dB
Response Speed	10		50	ms
Attenuation Accuracy			0.3	dB
Extinction Ratio, delta between IL and Max Attenuation	36	40	50	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		

RoHS COMPLIANT

Rev 08/11/26

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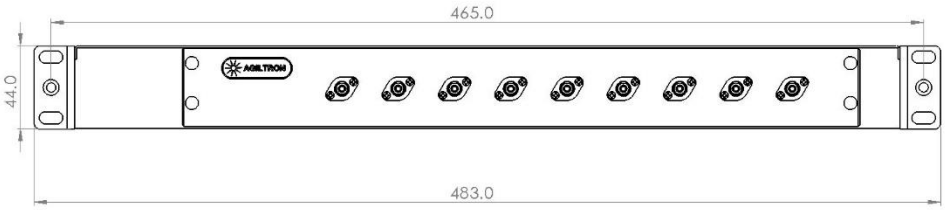
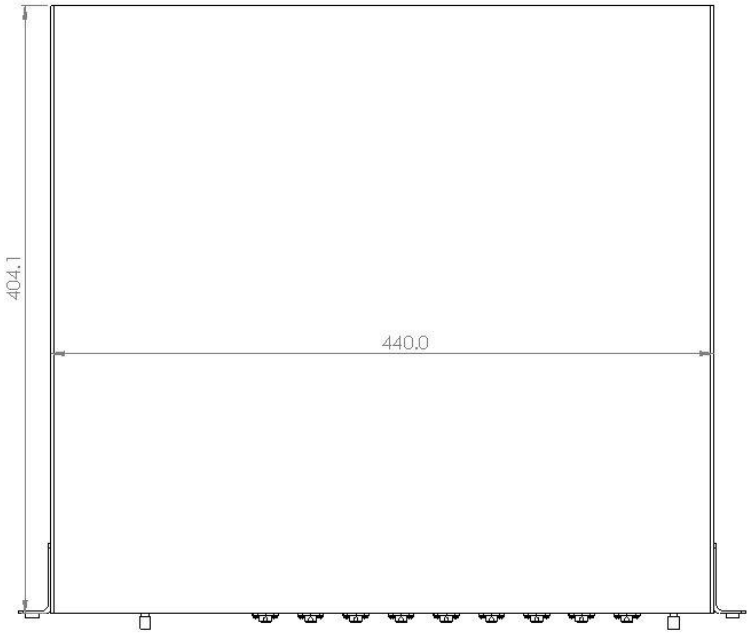
Mechanical Dimensions (mm)





*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information (Part Number)

	☐	☐	☐☐	☐	☐	☐	☐	☐
Prefix	**Interface**	**Wavelength**	**ITU Channel**	**Spacing**	**Package**	**Fiber Type**	**API [1]**	**Connector**
RCWB-	Ethernet = 2 RS232 = 3 USB = U GPIB = G	C band = C L band = L Special = 0	40 channels = 40 48 channels = 48 96 channels = 96 16 channels =16 Special = 00	50G = 5 100G = 1 CWDM = C Special = 0	1U = 1 Module = 2 Special = 0	SMF-28 250μm = 1 SMF-28 900μm = 3 Special = 0	Non = N Python = P LabVIEW = L Special = 0	FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 Special = 0

[1]. GUI and a command set are include. Application Programing Interface (API): Python $**760**. LabVIEW interface libraries $**850**

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