

WDM Channel Monitor (100/50GHz)

(patent pending)



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BUY NOW



Agiltron's ITU Channel Monitor scans the wavelength channel on the ITU grids of 100GHz and 50GHz up to 95 channels. The detector has a dynamic range of 60dB. The optical power read out for each channel is via RS232 or USB interface with a user-friendly GUI.

Features

- Up to 96 ITU Channel Scan
- High Stability
- Cost-Effective

Applications

- DWDM networks
- Fiber Sensing
- Test

Specifications

Parameter	Min	Typical	Max	Unit
Wavelength Range ^[1]	1530		1630	nm
ITU Spacing	100		50	GHz
Scan Resolution		ITU		
Scan Speed		5	20	ms
Bandwidth @-3dB	-	0.7	0.25	nm
Bandwidth @-20dB	-	0.75	-	nm
Polarization Dependent Loss	-	0.25	-	dB
Off-Band Suppression	-	45	-	dB
Measuring Range	-50	-	26	dBm
Measuring Resolution	0.01	-	-	dB
Optical Power Handling (CW)	-	-	500	mW
Operating Temperature	0	20	60	°C
Storage Temperature	-10		70	°C
Fiber		SM28		

Notes:

[1]. The transmission is only the wavelength band on the ITU grids, lights between the ITU are blocked.

Note: The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this link](#):

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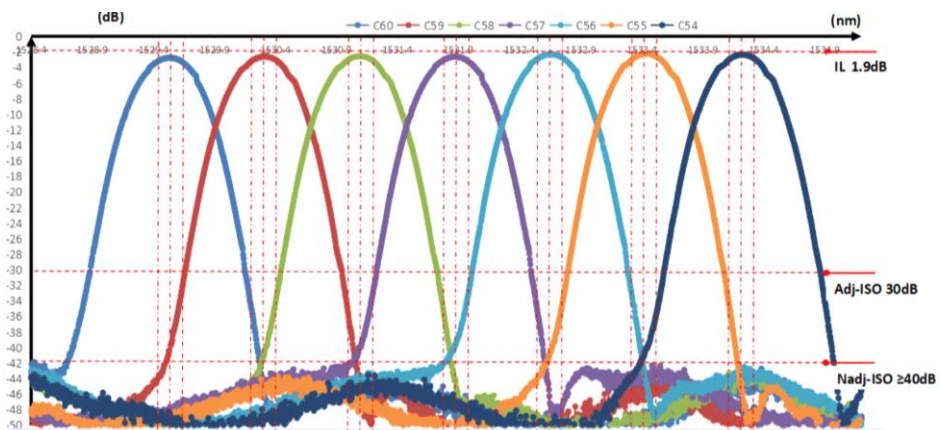


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Mechanical Dimension (mm)

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

Spectrum



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GUI

Ordering Information

Prefix	Wavelength	Wavelength Spacing	Channel	Type	Fiber Type	Fiber Cover	Fiber Length	Connector
WDMD-	C-Band=C L-Band= L	100GHz=1 50GHz=5	48=48 16 =16 40 = 40 60 = 60 96 =96	B-grade = 1 A-grade = 2	SMF-28 = 1	900um loose tube=3 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/PC = 7 Special = 0

How to test the insertion loss of a tunable optical filter

The filter only works in a specific range. Beyond this range, extra peaks may show. These peaks can be blocked with special order. Please follow these instructions to do an optical insertion loss test:

1. Connect a broadband fiber-coupled laser source to OSA, sweep one time over the specified range of the tunable filter, and then fix the curve in Trace A as a reference.
2. Connect the broadband laser source to the fiberoptic tunable filter fiber as input, then connect the other fiber port of the tunable filter as the output to the OSA.
3. Set OSA Trace B as 'write,' Trace C as 'Calculate: B-A.' Auto sweep Trace C from the specific range. Tune the micrometer to shift the peak at a different wavelength. Use 'Peak search' to record IL at a different wavelength."