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FREECALL 1800 680 680

MAP Tunable Grating Filter



For stand-alone applications, the MAP Tunable Grating Filter may be used as a benchtop

Key Features

- Narrow bandwidth
- Low polarization dependent loss (PDL) (< 0.3 dB)
- Wide wavelength range (1420 to 1630 nm)
- High power input (1 W)

Applications

- Spontaneous emission suppression
- Amplifier characterization (Up to 1 W of input power)
- BER testing
- Tunable laser based testing

Safety Information

- This cassette, when installed in a MAP chassis, complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No. 1010.1

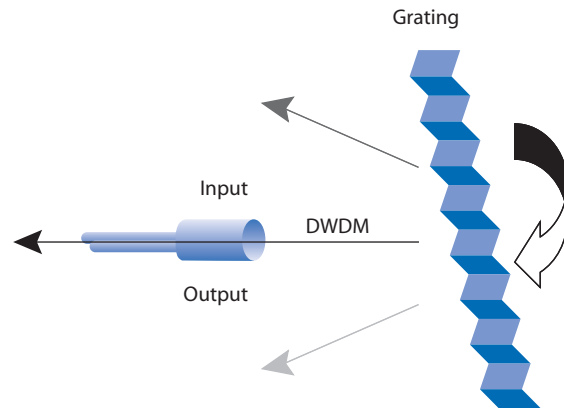
The Multiple Application Platform (MAP) Tunable Grating Filter Cassette is a tunable bandpass filter that offers continuous wavelength tuning from 1420 to 1630 nm. It is used for applications requiring low insertion loss (IL), high rejection, narrow bandwidth and wavelength tuning resolution of 0.005 nm. The standard model has a maximum input power of 300 mW and the high power option provides a maximum input power of 1000 mW.

Three options are available:

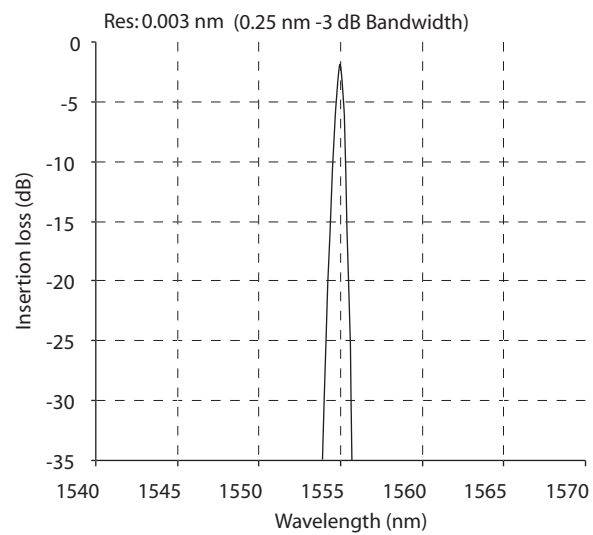
- the peak search option, used to find the absolute maximum transmission power within the filter's wavelength tuning range or a local maximum transmission power within a user-defined wavelength range
- 10% tap option for power monitoring
- 50% tap option for power monitoring.

MAP Tunable Grating Filter Cassette is ideal for applications where the user needs to suppress amplified spontaneous emissions (ASE) or isolate specific wavelengths. These applications include amplifier characterization, bit error rate (BER) testing and optical signal to noise ratio (OSNR) measurement.

The MAP Tunable Grating Filter Cassette is the next generation replacement of the Benchtop Tunable Grating Filter (TB9 series).



The filter makes use of a diffraction grating to separate the input light along several discrete paths. A stepper-motor rotates the grating to transmit the desired wavelength along the output fiber.



Model "G" filter shape shows the low IL and sharpness of the filter.

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Specifications

Parameter	Model C	Model G	Model K
Wavelength range	1420 to 1630 nm	1420 to 1630 nm	1420 to 1630 nm
Optical shape	Gaussian	Gaussian	Gaussian
-3 dB bandwidth ¹	0.11 nm \pm 15%	0.25 nm \pm 15%	0.55 nm \pm 15%
3/20 dB ratio ¹	0.40 \pm 0.05	0.31 \pm 0.05	0.31 \pm 0.05
Insertion loss (IL) ²			
1520 to 1630 nm	< 6.0 dB	< 4.5 dB	< 4.5 dB
1450 to 1630 nm	< 8.0 dB	< 6.0 dB	< 6.0 dB
Input power ³	300 mW or 1 W	300 mW or 1 W	300 mW
Return loss (RL) ⁴		> 45 dB	
Wavelength resolution		0.005 nm	
Polarization dependent loss (PDL) ⁵ , 1480 to 1630 nm		< 0.3 dB	
Tuning speed		> 5 nm/s	
Peak to average background noise		> 45 dB	
Accuracy		\pm 0.2 nm	
Peak search accuracy		< 0.2 dB from output peak power	
Polarization mode dispersion (PMD)		< 0.3 ps	
Group delay variation within a -3 dB bandwidth		< 5 ps	
Recommended calibration period		1 year	
Operating temperature		10 to -40 °C	
Storage temperature		-10 to 60 °C	
Dimensions (W x H x D)		8.12 x 13.24 x 39.5 cm	
Weight		2.3 kg	

1. Measured at 1550 nm.

2. Not including tap coupler loss if installed.

3. At 23 °C \pm 5 °C.

4. At selected wavelength.

5. Input power is within the range of -20 dBm to +20 dBm. Excludes PDL effect.

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at customer.service@jdsu.com.

Sample: MAPF+1GGP51FP

MAPF +1G

Code	Bandwidth
C	Model C (0.11 nm)
G	Model G (0.25 nm)
K	Model K (0.55 nm)

Code	Input Power
0	300 mW
P	1 W (Models C and G only)

Code	Option
0	None
1	50/50 coupler
9	10/90 coupler
X	Peak search

Code	Port Type
1	Bulkheads

Code	Connector Types
FP	FC/PC
FA	FC/APC
SC	SC/PC
SU	SC/APC



If the configurations available do not meet your performance requirements, please contact our global sales and customer service team to discuss the potential for specialized solutions.

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