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Find the *VIAVI Solutions / JDSU TB9226-Z-FP* at our website: *Click HERE*

Tunable Grating Filter

The JDS Uniphase Tunable Grating Filter is designed for high-performance laboratory and production testing of single-mode fiber-based components and subsystems. It features fine adjustment with resolution of 0.01 nm, and narrow passbands are available from 0.22-1.4 nm. The filter attains much higher wavelength isolation roll-off than Fabry-Perot etalons or interference filters.

The filter can be used for amplified spontaneous emission (ASE) filtering in erbium-doped fiber amplifier (EDFA) applications or to remove spontaneous emission from distributed feedback lasers (DFBs) and tunable lasers in measurements of wavelength selective components.

Both single and double pass grating configurations are available to provide high rejection and narrow bandwidth.

Six standard models are available with different bandwidths and optical performance for specific applications. The Tunable Grating Filters can be controlled from the front panel keypad or by the GPIB and RS232 interfaces.



Key Features & Benefits

Grating-based optical filter

Full width at half maximum (FWHM) as low as 0.22 nm

High rejection

Single-mode fiber in and out

Parallel and serial interfaces

GPIB and RS232 remote control

Complies to CE requirements plus UL3101-1 and CAN/CSA-C22.2 No. 1010.1

Applications

Spontaneous emission suppression

Tunable laser based testing

ASE filtering in EDFAs

WDM and DWDM component testing

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Specifications

MODEL		226	166	223	126	116	106
Tuning range	1530-1570 nm[1]	yes	yes	yes	yes	yes	yes
	1525-1625 nm[2]	yes	yes	yes	yes	yes	yes
- 3 dB bandwidth (± 15 %)		0.22 nm	0.25 nm	0.55 nm	0.55 nm	1.1 nm	1.4 nm
- 20 dB bandwidth (± 15 %)		0.6 nm	0.7 nm	1.5 nm	1.5 nm	3.0 nm	4.0 nm
Insertion loss	1530-1570 nm	≤ 6.0 dB	≤ 4.0 dB	≤ 5.5 dB	≤ 3 .0 dB	≤ 3.0 dB	≤ 3.0 dB
	1525-1625 nm	≤ 7.0 dB	≤ 4.0 dB	≤ 7.0 dB	≤ 3 .0 dB	≤ 3.0 dB	≤ 3.0 dB
Polarization dependent loss							
	1530-1570 nm	≤ 0.2 dB	≤ 0.6 dB	≤ 0.2 dB	≤ 0.6 dB	≤ 0.6 dB	≤ 0.6 dB
	1525-1625 nm	≤ 0.5 dB	≤ 0.6 dB	≤ 0.5 dB	≤ 0.6 dB	≤ 0.6 dB	≤ 0.6 dB
Maximum input power	standard	300 mW	300 mW	300 mW	300 mW	300 mW	300 mW
	high power	1 W	1 W	1 W	1 W	NA	NA
Resolution		0.01 nm					
Return loss		> 45 dB					
Repeatability		0.05 nm					
Accuracy[3]		± 0.2 nm					
Input voltage		100-240 V AC, 50-60 Hz					
Power consumption		80 VA maximum					
Dimensions W x H x D		21.2 x 8.9 x 35.5 cm/19 inch, 2U high, half-rack width					
Weight		4 kg					
Operating temperature		10 to 40 °C					
Storage temperature		0 to 50 °C					
Humidity		maximum 95 % RH up to 40 °C, non condensing					
Calibration period		1 year					

1. Can be used over the 1460-1575 nm wavelength range.
2. Can be used over the 1500-1625 nm wavelength range.
3. Specifications are valid after 1 hour of warm-up.

Sample Order: TB90116+22FA1

TB9 [ ] [ ] [ ] [ ] +2 [ ] [ ] [ ] [ ]

code	input power
0	300 mW
P	1 W

code	tuning range (nm)
1	1530-1570
2	1525-1625

code	port type
1	Bulkheads on front
3	Pigtails on front (2.5 m)

code	model (TB9)
226	226
166	166
223	223
126	126
116	116 (300 mW only)
106	106 (300 mW only)

code	connector type
FP	FC/PC
FA	FC/APC
SC	SC/PC
SU	SC/APC
SP	ST/PC
NC	No connector

Indicate your requirements by selecting one option from each configuration table. Print the corresponding codes in the available boxes to form your part number.



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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