Key Features

- Grating-based optical filter
- Full width at half maximum (FWHM) as low as 0.25 nm
- High rejection
- Single-mode fiber in and out
- GPIB parallel interface and RS232 serial interface

Applications

- Spontaneous emission suppression
- Tunable laser-based testing
- Erbium doped fiber amplifier (EDFA) testing
- Wavelength division multiplexer (WDM) and dense WDM (DWDM) component testing

Standard Accessories

- AC power cord
- Rack-mount kit with assembly instructions
- User's manual

Specifications

The following optical specifications describe the warranted characteristics of the 1530 to 1570 nm models (Table 2) and the 1525 to 1625 nm models (Table 3). Supplementary specifications describe the typical non-warranted performance of the unit (Table 4).

Table 2: Optical Specifications (1530 to 1570 nm)

Parameter	TB9226	TB9166	TB9223	TB9126	TB9116	TB9106
-3 dB bandwidth (±15%)	0.25 nm	0.3 nm	0.6 nm	0.6 nm	1.1 nm	1.4 nm
-20 dB bandwidth (±15%)	0.7 nm	0.8 nm	1.5 nm	1.6 nm	3.0 nm	4.0 nm
Insertion loss	≤6.0 dB	≤4.0 dB	≤5.5 dB	≤3.0 dB	≤3.0 dB	≤3.0 dB
Polarization dependent loss	≤0.2 dB	≤0.6 dB	≤0.2 dB	≤0.6 dB	≤0.6 dB	≤0.6 dB
Resolution	0.01 nm					
Return loss	>45 dB					
Repeatability	0.05 nm					
Accuracy	0.2 nm					
Tuning range	1460 to 1575 nm					

Table 3: Optical Specifications (1525 to 1625 nm)

Parameter	TB9226-Z-XX	TB9223-Z-XX
-3 dB bandwidth (±15%)	0.25 nm	0.6 nm
-20 dB bandwidth (±15%)	0.7 nm	1.5 nm
Insertion loss	≤7.0 dB	≤7.0 dB
Polarization dependent loss	≤0.5 dB	≤0.5 dB
Resolution	0.01 nm	
Return loss	>45 dB	
Repeatability	0.05 nm	
Accuracy	0.2 nm	
Tuning range	1460 to 1575 nm	

Table 4: Other Specifications

Electrical	
Tuning range	1460 to 1575 nm
Input voltage	100 to 240 V AC, 50 to 60 Hz
Power consumption	80 VA maximum
Physical	
Weight	4 kg
Dimensions (W x H x D) 19 in (48.26 cm) rack-mount	21.2 x 8.9 x 35.5 cm 2U high, ½ rack width
Environmental	
Storage temperature	0 to 50 °C
Operating temperature	10 to 40 °C
Humidity	maximum 95% RH up to 40 °C, decreasing at 5% per °C from 40 to 50 °C