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JDS Uniphase

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Tunable Fabry-Perot Etalon Filter

Test Report

Model: TB2502R-Z55

Serial Number: ME006041

Summary of test data[1] :

Parameters	Specifications	Data	Units
Operating Wavelength Range	1530 – 1640		nm
Bandwidth (BW @ -3dB) at 1565 nm (Double-Pass)	0.43 to 0.68	0.52	nm
Free Spectral Range (FSR)	90 to 120	96.24	nm
Finesse (F)	175 to 220	185.08	--
Insertion Loss[2] (IL) at 1565 nm (Double-Pass)	< 4.5	2.47	dB
Tuning Voltage per FSR	< 12	9.35	V
Maximum Voltage	30		V
Operating Temperature	-5 to +65		°C
Fiber Type	9/125/900		µm
Fiber Length	1.5		m
Connector Type	SC/PC		--

Note:

[1] Optical specifications are valid at operating temperature and operating wavelength range, unless specified otherwise.

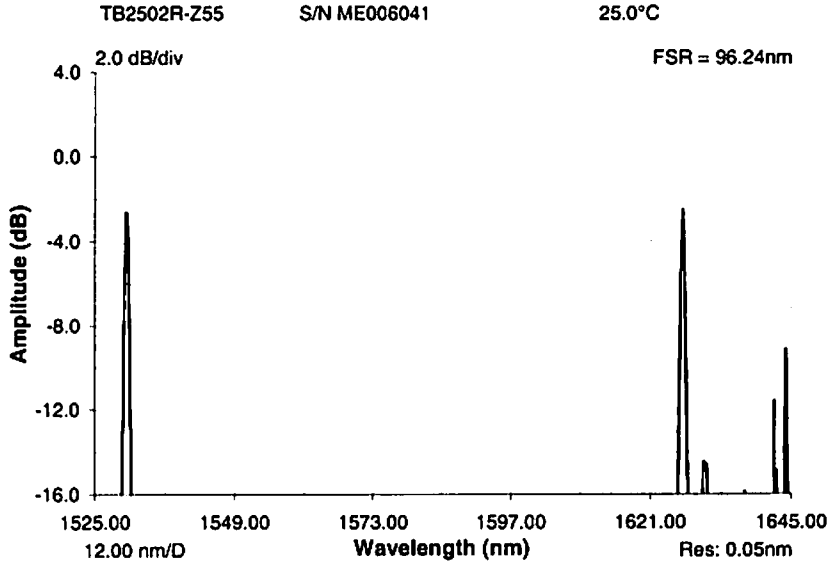
[2] Measurement includes circulator loss of up to 1dB per pass and circulator PDL of up to 0.1dB per pass (including connector loss).

Technician: Harok

Date: May 8, 2001

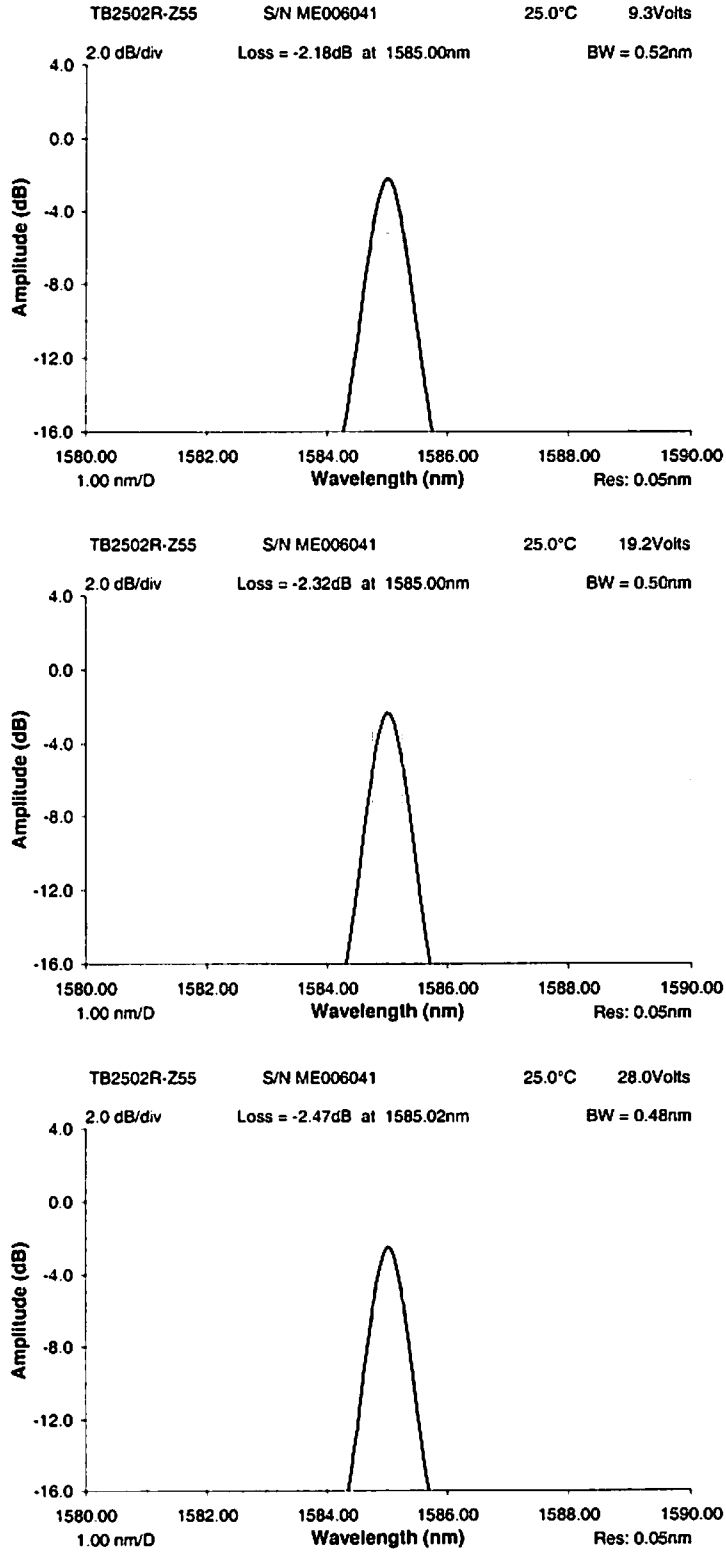
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Free Spectral Range



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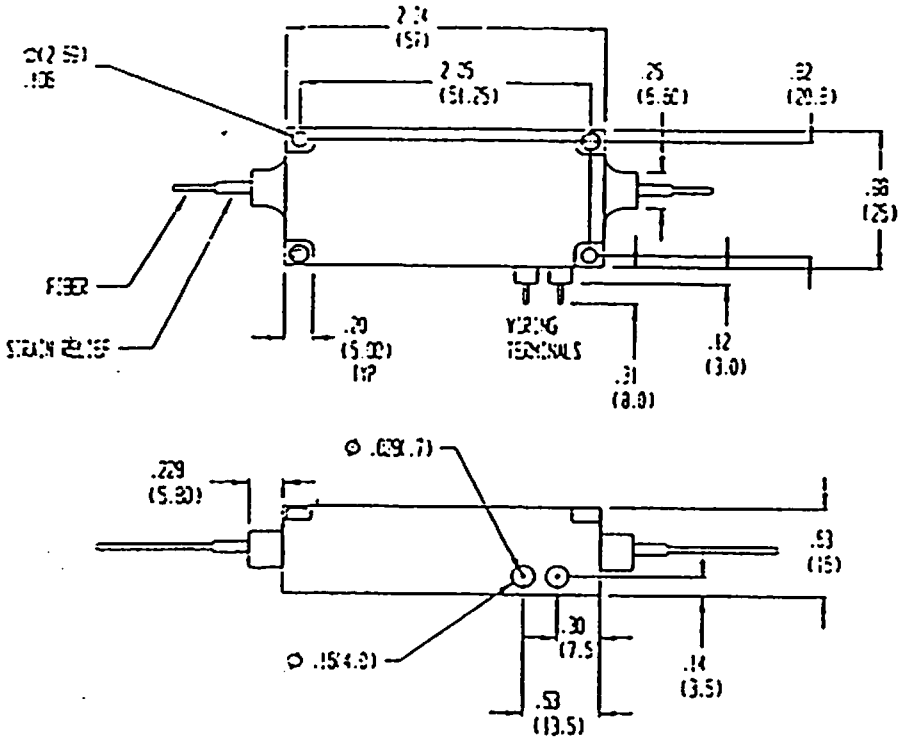
Insertion Loss at Room Temperature



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TB 2500 Tunable Fabry-Perot Filter



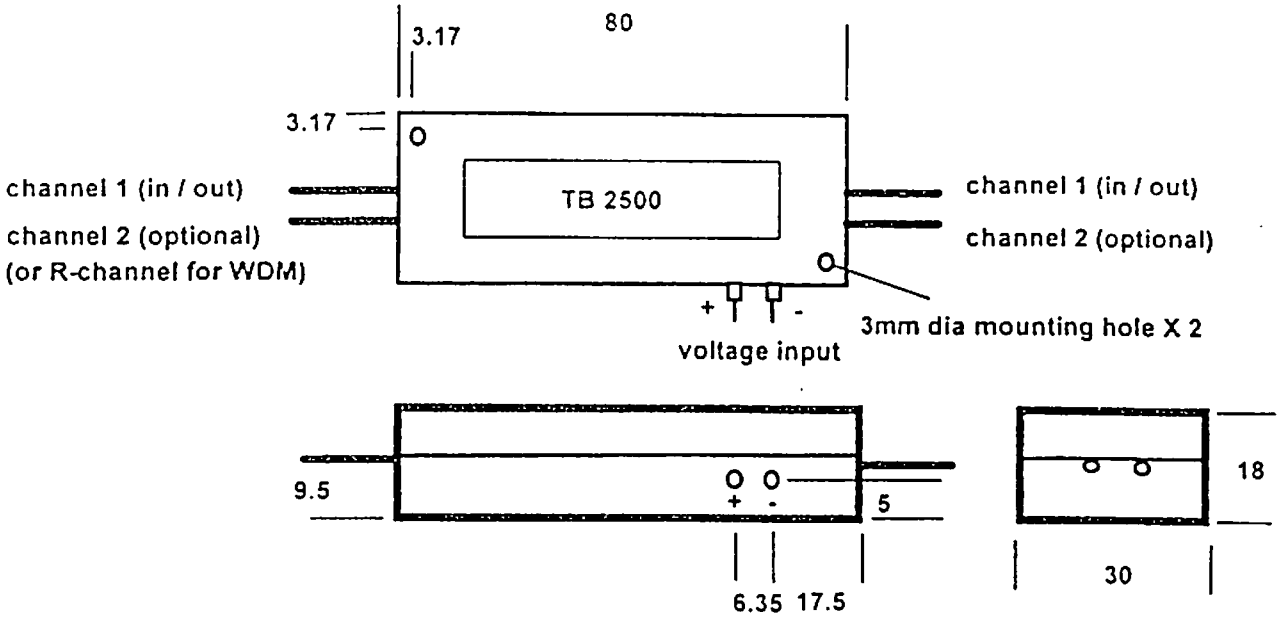
General Handling and Operating Instructions:

(1) Handling: Although the TB2500 Fabry-Perot Filter is a rugged component, severe mechanical shock (e.g. generated by dropping the device from a height) could cause permanent damage to the filter. Therefore, as with other optical components, the TB2500 filter should be handled with care during mounting and setup of the device.
(2) Voltage Polarity: Apply voltage of positive polarity to the input terminals only (red +, green –). DO NOT apply voltage of negative polarity as this may result in damage to the piezo actuator inside the package. Avoid sudden current surges, such as caused by shorting the terminals or connection to a high-current power supply.
(3) Input Voltage Range: Applying 0 to +30 volts to the input terminals of the Fabry-Perot filter will tune the device over 3 to 4 wavelength orders (or Free Spectral Ranges).
(4) Mounting: Two 3mm diameter mounting holes are provided for fixing the unit onto test jigs or printed circuit boards.

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TB2500 Tunable Fabry-Perot Filter



General Handling and Operating Instructions:

(1) Handling: Although the TB2500 Fabry-Perot Filter is a rugged component, severe mechanical shock (e.g. generated by dropping the device from a height) could cause permanent damage to the filter. Therefore, as with other optical components, the TB2500 filter should be handled with care during mounting and setup of the device.
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