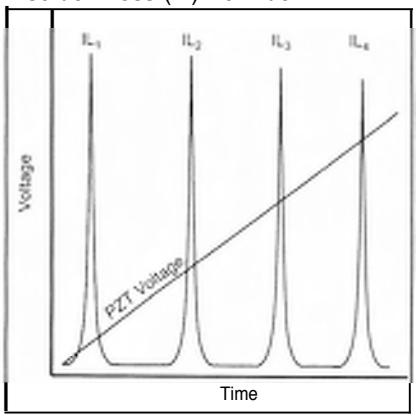
Fiber Fabry-Perot Tunable Filter (FFP-TF) Test Results

Serial Number 9494

Test Date	January 8,2001
Test Wavelength	1545 nm
Free Spectral Range	68.5 nm
Finesse	1610
Bandwidth	0.043 nm
Insertion Loss	2.8 dB
Measured Order Voltage @ 1520 nm	26 V
Order # by MOI Calculation	22.0
Order # by Profiler	22.94 @ 14.28 V
Tuning Voltage/FSR	12 V
Maximum Input Power	100 mW
Package Type	Mini
Fiber Reinforcement	0.9 mm
Temperature Test	-20 to 80 C

Insertion Loss (IL) Definition:



Notes:

Conformance Statement

Micron Optics confirms that the following Fiber Fabry-Perot Filter has been manufactured using fully qualified, consistent, procedures and materials. The proof of the conformance is presented in the above serialized data sheet.

Handling

Before usinglinstalling the filter carefully remove the metal shorting wire used for transportation.

Any FFP product must be handled carefully. **As** with all high performance Fabry-Perot devices, mirrors are aligned to nanometer tolerance. If the FFP is subjected to excessive shock the mirrors will become misaligned and the filter performance will degrade.

Connectorization

Do not hold sheath and pull fiber; breakage could occur as a result. Pigtails contain loose buffered fiber pigtails so special connectorization procedures are required.

1. Chemically stripping the fiber is preferred.
2. To mechanically strip fiber, wrap 6 to 8 turns of buffered fiber around a 1 inch diameter mandrel to transfer tensile load from fiber to buffer. Gently strip fiber.
3. Minimize residual compressive load on fiber relative to sheath when inserting ferrule.
4. Follow remaining standard connectorization procedures.

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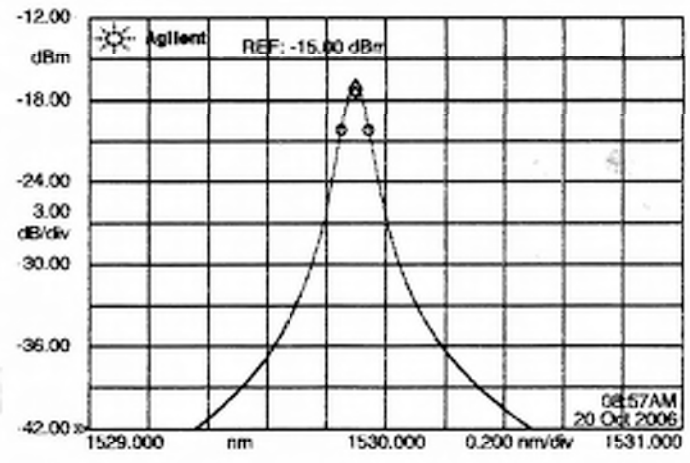

Mkr 1(A)	Mkr 1L	Mkr 1R	BW	CWL
1529.896 nm	1529.850 nm	1529.943 nm	0.093 nm	1529.896 nm
-17.067 dBm	-20.067 dBm	-20.067 dBm	-3.000 dB	

RBW: 0.06 nm
VBW: 3.0 kHz

Sens: -56.66 dBm
ST: 75.3 ms

Avg: Off

Legend
A

Model Number	86142A
Serial Number	US38380376
Firmware Rev	B.03.01 A.01.01
Auto Coupling	On
Detection Mode	Sample
Trigger Delay	10.0 us
Wavelength Offset	0.000 nm
Trace A Offset	0.00 dB

BW: .093
VOLTAGE: 2.5
SN: 9414