Performance Data Sheet

(DL2_xxxxxx.xlsm)

Model Type: DLP-2 (DC to 1GHz Version, Narrow Key)
Serial Number: xxxxxx

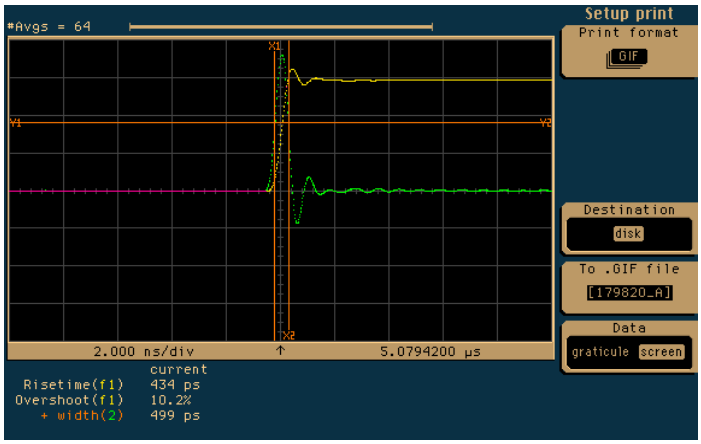

Fig.1 Impulse / Step Response Positive Optical Input

X-axis: 2ns / div
Y-axis: 100mV / div

Light Source: Modified WSM-2
1550nm pulsation light source
(Graviton Inc.)
Oscilloscope: 83480A+83485A
Digital Communications Analyzer
(Agilent Technology)

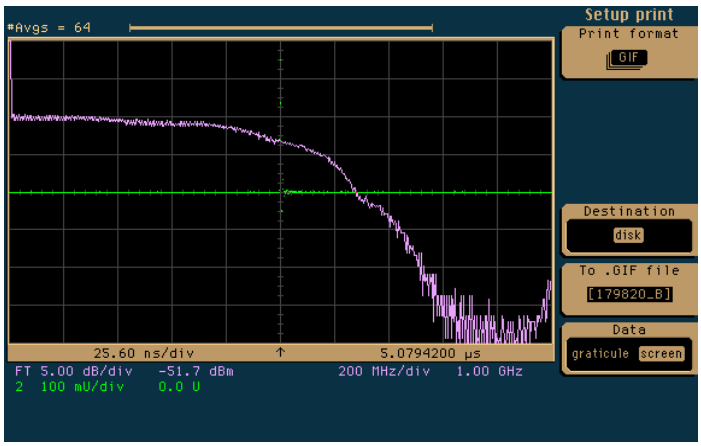

Fig.2 Frequency Response Positive Optical Input

(Calculated from the impulse response shown above)

X-axis: 200MHz / div
Y-axis: 5dBelectrical / div
Center Frequency: 1GHz

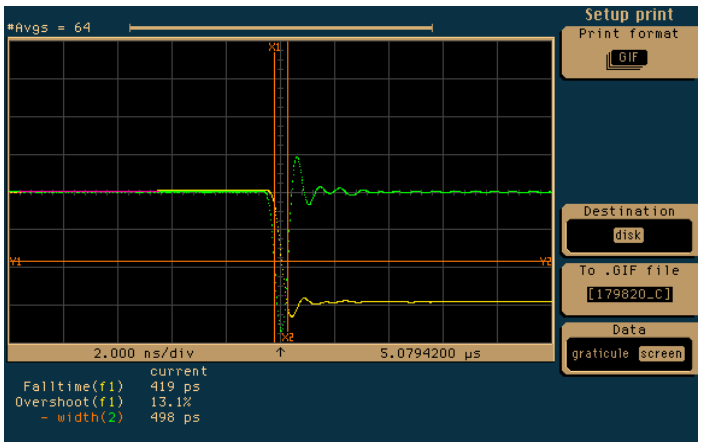

Fig.3 Impulse / Step Response Negative Optical Input

X-axis: 2ns / div
Y-axis: 100mV / div

Light Source: Modified WSM-2
1550nm pulsation light source
(Graviton Inc.)
Oscilloscope: 83480A+83485A
Digital Communications Analyzer
(Agilent Technology)

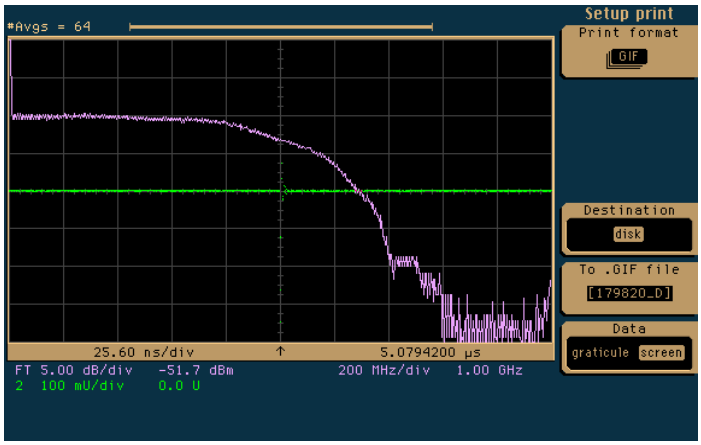

Fig.4 Frequency Response Negative Optical Input

(Calculated from the impulse response shown above)

X-axis: 200MHz / div
Y-axis: 5dBelectrical / div
Center Frequency: 1GHz

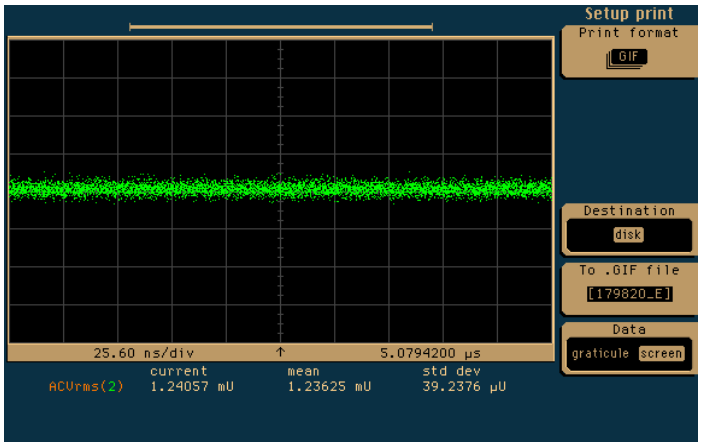

Fig.5 Noise Waveform of RF Output

X-axis: 25.6ns / div
Y-axis: 10mV / div

DC Performance & Noise Level (with SMF-APC)

Item	Specifications	Measured Value	Judgment
Conversion Gain of RF Out (Pos. In, 1310nm, 50ohm Load)	4.500 to 5.500 V/mW	**5.184 V/mW**	OK
Conversion Gain of RF Out (Neg. In, 1310nm, 50ohm	4.500 to 5.500 V/mW	**-5.197 V/mW**	OK
Gain Difference (P-N) / (P+N)	Within +/- 2%	**0.13 %**	OK
Monitor Gain of P-Mon. Out (Pos. In, 1310nm, Hi-Z Load)	9.00 to 11.00 V/mW	**10.96 V/mW**	OK
Monitor Gain of N-Mon. Out (Neg. In, 1310nm, Hi-Z Load)	9.00 to 11.00 V/mW	**10.97 V/mW**	OK
NEP (at 100MHz, 1310nm)	<6.0pW/√Hz	**3.86 pW/√Hz**	OK
NEP (at 500MHz, 1310nm)	<8.5pW/√Hz	**5.20 pW/√Hz**	OK
Wideband Noise of RF Out	<1.5mVrms (50ohm)	**1.24 mVrms**	OK
Wideband Noise of P-Mon. Out	<0.3mVrms (50ohm)	**0.24 mVrms**	OK
Wideband Noise of N-Mon.	<0.3mVrms (50ohm)	**0.24 mVrms**	OK
Output Offset Voltage (RF Out)	+/−0.1mV (50 ohm)	**-0.01 mV**	OK
Output Offset (P-Mon. Out)	+/−0.1mV (Hi-Z)	**-0.01 mV**	OK
Output Offset (N-Mon. Out)	+/−0.1mV (Hi-Z)	**0.01 mV**	OK
Supply Current (+24V)	0.11 to 0.13 A	**0.12 A**	OK

Manufactured on 202x/xx/xx
Evaluated by Mitsuhiro Nagatomo