Summary Data
For
EWDM-2G6G-65-70MV-1

Customer: [redacted]
SO No: [redacted]
Model No: EWDM-2G6G-65-70MV-1
Serial No: PL35299/2305

Tested By: Jim Hopson
Temperature: 0°C TO +85°C
Date 6/12/2024
Drawing No: 27637945 **Rev:** A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 6 GHz	**2 to 6 GHz**	PMI QA3
2	VSWR:	2.0:1 MAX @ 50 Ω	**1.50:1 @ 50 Ω (RF IN)** **1.27:1 @ 50 Ω (BIT IN)** **1.35:1 @ 50 Ω (RF OUT)** **1.35:1 @ 50 Ω (SW OUT)**	
3	Noise Figure:	6 dB MAX	**4.8 dB**	
4	Input Power:	(1) 1 W CW, Max. (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%, Max.	**PASS**	
5	TTL Control	See Logic Table	**PASS**	
6	SP3T Switch Isolation	60 dB MIN (All Ports)	**67 dB**	
7	SP3T Switching Speed:	100 ns MAX	**50 ns**	
8	RF OUT Linear Gain	+33 dB MIN, 39 dB MAX	**36.5/34.6 db**	
9	RF OUT Frequency Flatness:	±2.0 dB MAX	**+- .95 db**	
10	RF OUT 1 dB Compression Point:	+3 dBm MIN	**10.5 dBm**	
11	RF OUT Second Harmonic:	-9 dBc MIN	**-26 dBc**	
12	RF OUT Third Harmonic:	-12 dBc MIN	**-37 dBc**	

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13	SW Linear Gain	+7 dB MIN, 15 dB MAX	**14.0/12.0 db**	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	**+- 1.0 db**	
15	SW 1 dB Compression Point:	+3 dBm MIN	**5.3 dBm**	
16	SW Second Harmonic:	-9 dBc MIN	**-34 dBc**	
17	SW Third Harmonic:	-12 dBc MIN	**-38 dBc**	
18	VIDEO OUT TSS:	-71 dBm MAX	**-71 dBm**	
19	VIDEO OUT Dynamic Range:	-65 to 0 dBm	**-65 to 0 dBm**	
20	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	**70.2 mV/dB**	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	**0.23/-.23 dB**	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	**.74/-1.01 dB**	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	**1.29 dB**	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	**40 mv**	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	**25.0 ns**	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	**148 ns**	
27	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value, MAX	**45 ns**	
28	VIDEO OUT Recovery Time:	0.5 us MAX to within 1 dB of baseline	**0.44 us**	

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29	VIDEO OUT Video Frequency Flatness:	±1.0 dB MAX	**0.9 dB**	PMI QA?
30	VIDEO OUT CW Immunity:	A. CW Immune Power TSS to -40 dBm Baseline Shift: 200 mV MAX	**100 mV**	
		B. Pulse Peak Amplitude Loss; 2 dB MAX	**0.8 dB**	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	**1.5 ms**	
		CW Recovery Time at CW = -40 dBm, ≤ 50 us	**<20 us**	
31	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	**100 ns to 300 us**	
32	VIDEO OUT load Impedance:	75 ±1 Ω	**75 Ω**	
33	VIDEO OUT Video Output driver capability	150 ft. RG11 into 75 ohm load	**PASS**	
34	Pulse density capability:	10% duty cycle 100ns; 70% duty cycle 300us at peak power -10 dBm with 1 dB variable for pulse amplitude and baseline	**PASS**	
35	VIDEO OUT Noise Level (Vp-p):	150 mV TYP	**96.4 mv**	

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36	Droop of the Output Video Pulse @ 300us & -65 dBm	70mV (1 dB) MAX	**26 mV**	PMI QA3
37	VIDEO OUT Propagation Delay:	50 ns MAX Excluding cable	**40 ns**	
38	Power Supply	+15 V @ 1000 mA MAX -15 V @ 500 mA MAX	**+15 V @ 640 mA** **-15 V @ 140 mA**	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	**PASS**	

QA/QC Approval: K. Lutes **Date:** 8-14-24

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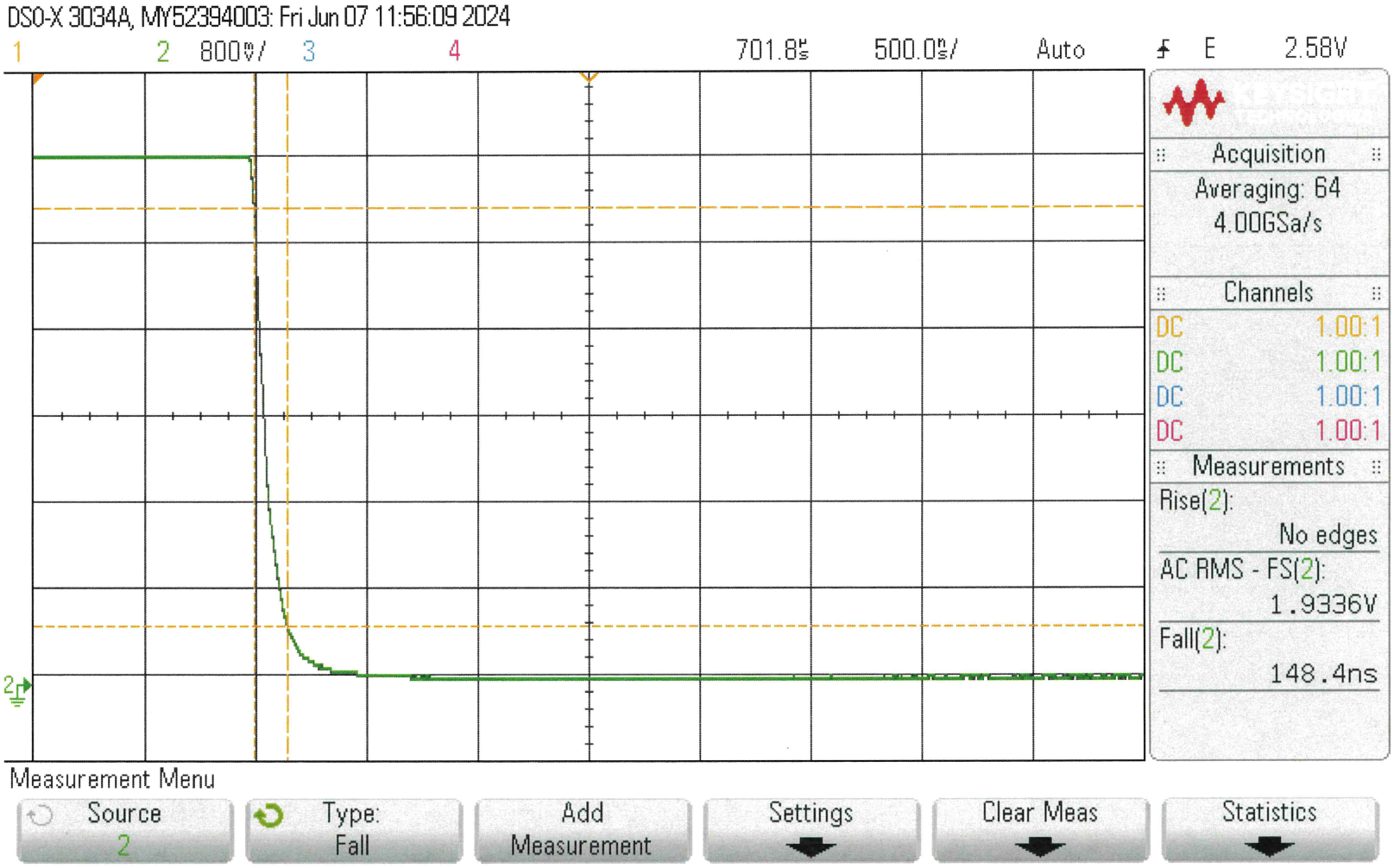
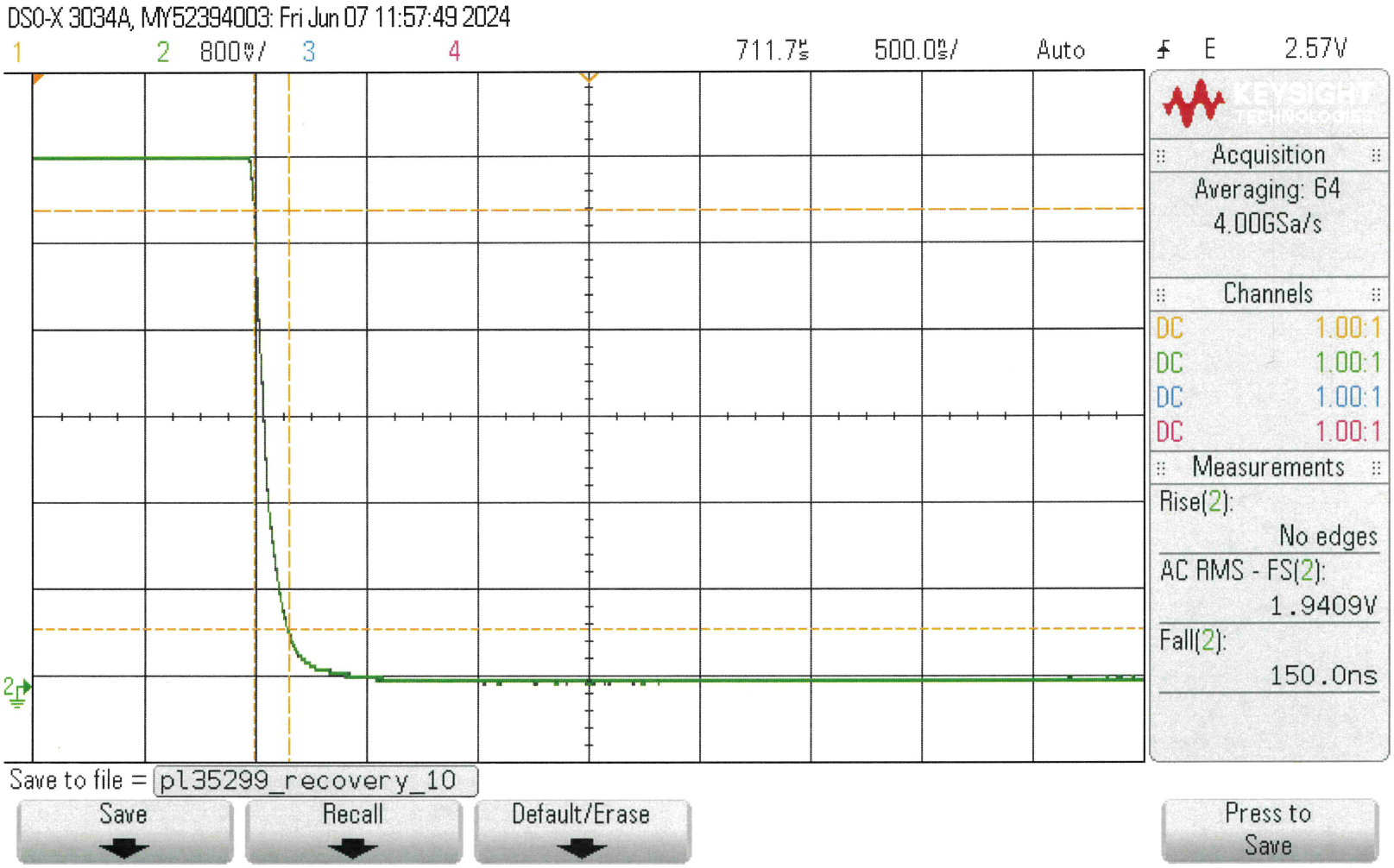
PL35299 Recovery

W 100ns P 300ns



PL35299 Recovery

W 10µs P 50µs