





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

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	+13.48 dB MAX +11.34 dB MIN	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	±1.1 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	+7.48 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-27 dBc	
17	SW Third Harmonic:	-12 dBc MIN	-47 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	69.1 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	±0.26 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	±0.82 dB	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	±1.18 dB	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	2 mV	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	25.3 ns	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	142.8 ns	
27	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value, MAX	<50 ns	
28	VIDEO OUT Recovery Time:	0.5 us MAX to within 1 dB of baseline	0.45 us	



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

29	VIDEO OUT Video Frequency Flatness:	± 1.0 dB MAX	± 0.75 dB	PMI QA3
30	VIDEO OUT CW Immunity:	A. CW Immune Power TSS to -40 dBm Baseline Shift: 200 mV MAX	< 200 mV	
		B. Pulse Peak Amplitude Loss; 2 dB MAX	< 2 dB	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	1.8 ms	
		CW Recovery Time at CW = -40 dBm, ≤ 50 us	< 50 us	
31	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	100 ns to 300 us	
32	VIDEO OUT load Impedance:	$75 \pm 1 \Omega$	75Ω	
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	< 150 mV	



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

36	Droop of the Output Video Pulse @ 300us & - 65 dBm	70mV (1 dB) MAX	< 70 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 @ 619 mA -15 V @ 133 mA	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	PASS	

QA/QC Approval: H. Luter Date: 6-27-24



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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL46504
Date: 06/27/2024
Tested By: F. Cortes
Test Temp: +25°C
Input Port: RF Port

DC Offset: 1 mV



Frequency

2 GHz	INTERCEPT (mV)	4844
	SLOPE (mV/dB)	69.2
	MAX LIN ERROR	0.68
	MAX ACC ERROR	0.55

3 GHz	INTERCEPT (mV)	4903
	SLOPE (mV/dB)	70
	MAX LIN ERROR	0.22
	MAX ACC ERROR	0.75

4 GHz	INTERCEPT (mV)	4872
	SLOPE (mV/dB)	70.2
	MAX LIN ERROR	0.26
	MAX ACC ERROR	0.28

5 GHz	INTERCEPT (mV)	4867
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.2
	MAX ACC ERROR	0.31

6 GHz	INTERCEPT (mV)	4844
	SLOPE (mV/dB)	70.6
	MAX LIN ERROR	0.43
	MAX ACC ERROR	0.8

AVG. SLOPE: 70.1 mV/dB

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
2 GHz	349	694	1046	1384	1751	2079	2407	2727	3085	3456	3806	4172	4530	4836
	4	3	9	1	22	4	-14	-40	-29	-4	0	20	32	-8
	0.06	0.05	0.13	0.01	0.32	0.05	-0.21	-0.58	-0.41	-0.05	0.00	0.29	0.48	-0.12
	0.51	0.43	0.46	0.28	0.52	0.20	-0.12	-0.55	-0.44	-0.15	-0.15	0.07	0.18	-0.45
3 GHz	355	704	1058	1399	1767	2098	2445	2798	3150	3519	3855	4205	4552	4899
	0	-1	3	-5	13	-6	-9	-6	-4	16	2	2	-1	-4
	0.00	-0.01	0.05	-0.08	0.18	-0.09	-0.13	-0.08	-0.05	0.22	0.02	0.03	-0.02	-0.06
	0.59	0.57	0.63	0.49	0.75	0.47	0.42	0.46	0.49	0.75	0.55	0.54	0.50	0.45
4 GHz	312	661	1007	1363	1721	2053	2409	2772	3127	3486	3814	4165	4506	4879
	3	1	-4	-9	8	-11	-6	6	10	18	-5	-5	-15	7
	0.05	0.02	-0.05	-0.12	0.12	-0.16	-0.08	0.09	0.14	0.26	-0.07	-0.07	-0.22	0.10
	-0.02	-0.04	-0.10	-0.16	0.09	-0.17	-0.09	0.09	0.16	0.28	-0.04	-0.03	-0.16	0.16
5 GHz	303	650	994	1343	1709	2048	2403	2761	3118	3475	3803	4157	4503	4880
	6	2	-6	-8	6	-7	-3	3	9	14	-9	-7	-13	13
	0.09	0.03	-0.08	-0.12	0.09	-0.09	-0.04	0.05	0.12	0.20	-0.13	-0.10	-0.18	0.18
	-0.15	-0.20	-0.29	-0.31	-0.08	-0.24	-0.18	-0.07	0.03	0.12	-0.19	-0.14	-0.20	0.18
6 GHz	272	617	958	1309	1670	2011	2363	2721	3084	3434	3767	4134	4487	4875
	16	8	-4	-6	2	-10	-11	-6	4	1	-18	-4	-4	31
	0.23	0.12	-0.05	-0.08	0.03	-0.14	-0.15	-0.08	0.06	0.02	-0.26	-0.06	-0.06	0.43
	-0.59	-0.67	-0.80	-0.79	-0.64	-0.77	-0.75	-0.64	-0.46	-0.46	-0.71	-0.47	-0.43	0.11
AVG. SLOPE: 70.1 mV/dB	0.59	0.62	0.71	0.64	0.69	0.62	0.59	0.55	0.47	0.61	0.63	0.51	0.46	0.45

RF Input Power (dBm)

Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

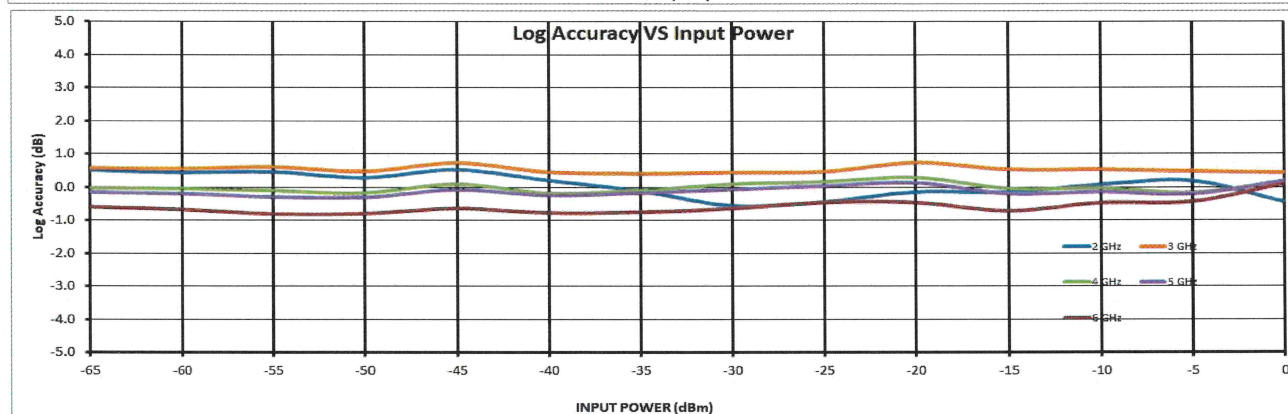
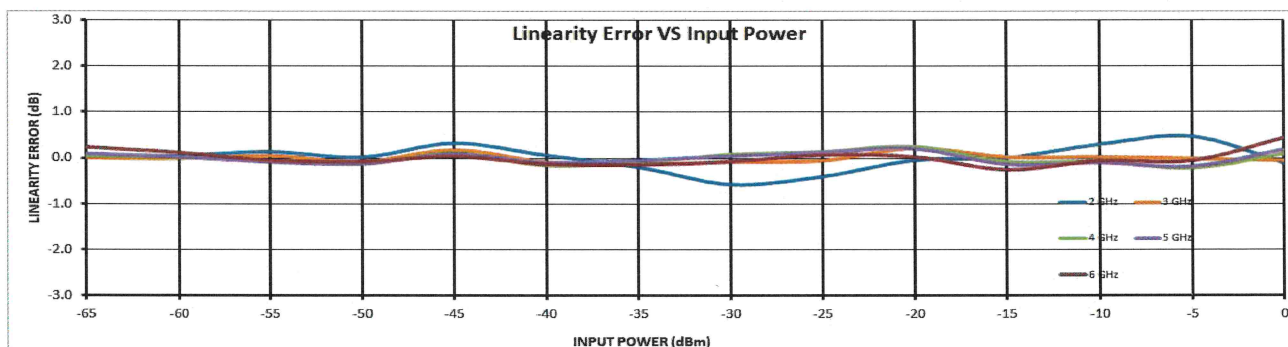
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

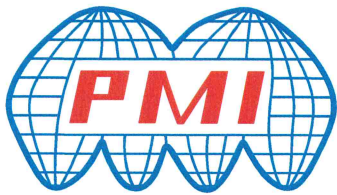
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

Flatness dB: ±0.71 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL46504
Date: 06/27/2024
Tested By: F. Cortes
Test Temp: +25°C
Input Port: BIT Port

DC Offset: 2 mV



Frequency

2 GHz	INTERCEPT (mV)	4835
	SLOPE (mV/dB)	69.1
	MAX LIN ERROR	0.56
	MAX ACC ERROR	0.57

3 GHz	INTERCEPT (mV)	4898
	SLOPE (mV/dB)	69.9
	MAX LIN ERROR	0.22
	MAX ACC ERROR	0.79

4 GHz	INTERCEPT (mV)	4868
	SLOPE (mV/dB)	70.2
	MAX LIN ERROR	0.26
	MAX ACC ERROR	0.33

5 GHz	INTERCEPT (mV)	4861
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.21
	MAX ACC ERROR	0.3

6 GHz	INTERCEPT (mV)	4839
	SLOPE (mV/dB)	70.6
	MAX LIN ERROR	0.42
	MAX ACC ERROR	0.82

AVG. SLOPE: 70 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
344	690	1040	1378	1745	2073	2402	2723	3081	3450	3800	4165	4519	4821
3	3	7	0	21	4	-13	-38	-25	-2	2	22	30	-14
0.04	0.05	0.11	0.00	0.31	0.05	-0.19	-0.55	-0.37	-0.03	0.03	0.31	0.43	-0.20
0.49	0.43	0.43	0.26	0.50	0.19	-0.11	-0.53	-0.42	-0.15	-0.15	0.07	0.12	-0.57

354	703	1057	1397	1765	2096	2442	2795	3146	3515	3851	4201	4548	4894
0	-1	4	-6	13	-6	-9	-6	-4	15	2	2	0	-4
0.00	-0.01	0.06	-0.08	0.18	-0.09	-0.13	-0.08	-0.06	0.22	0.02	0.03	-0.01	-0.06
0.64	0.62	0.68	0.53	0.79	0.52	0.46	0.50	0.51	0.78	0.58	0.58	0.54	0.48

311	669	1006	1362	1719	2062	2408	2771	3124	3483	3810	4161	4502	4876
3	0	-4	-8	8	-10	-5	7	10	18	-6	-6	-16	8
0.04	0.00	-0.05	-0.12	0.11	-0.14	-0.07	0.11	0.14	0.25	-0.09	-0.08	-0.22	0.11
0.02	-0.01	-0.05	-0.11	0.13	-0.11	-0.03	0.16	0.20	0.33	0.00	0.01	-0.12	0.22

300	646	989	1339	1704	2042	2398	2756	3112	3470	3798	4152	4497	4874
7	2	-6	-8	6	-8	-3	3	8	14	-9	-6	-13	13
0.10	0.03	-0.09	-0.11	0.08	-0.11	-0.05	0.05	0.11	0.21	-0.13	-0.09	-0.18	0.18
-0.14	-0.19	-0.30	-0.30	-0.08	-0.26	-0.17	-0.06	0.03	0.14	-0.18	-0.12	-0.19	0.19

265	612	952	1304	1666	2005	2358	2716	3080	3429	3762	4129	4481	4869
15	9	-4	-6	4	-10	-10	-6	6	2	-18	-4	-6	30
0.21	0.12	-0.06	-0.08	0.05	-0.15	-0.15	-0.08	0.08	0.02	-0.26	-0.06	-0.07	0.42
-0.64	-0.68	-0.82	-0.80	-0.63	-0.78	-0.74	-0.63	-0.43	-0.45	-0.69	-0.45	-0.42	0.12

0.64	0.65	0.75	0.66	0.71	0.65	0.60	0.56	0.47	0.61	0.64	0.51	0.48	0.52
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RF Input Power (dBm)

Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

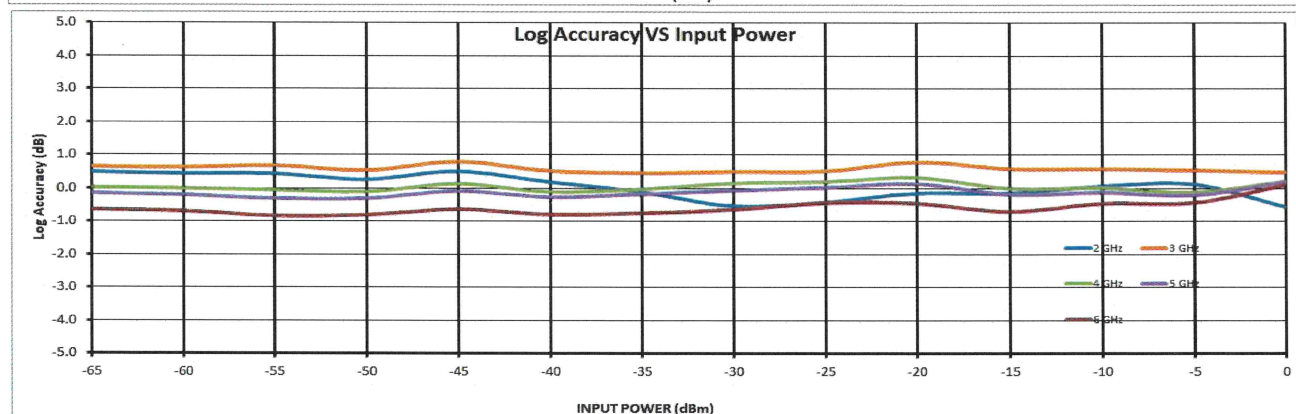
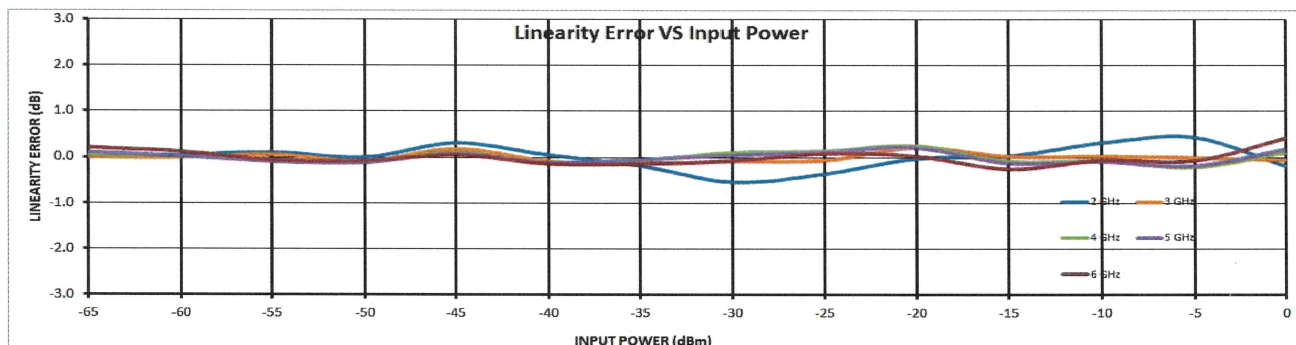
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

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Error (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

Flatness dB: ±0.75 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL46504
Date:: 06/27/2024
Tested By: F. Cortes
Test Temp: 0°C
Input Port: RF Port

DC Offset: 15 mV



Frequency

2 GHz	INTERCEPT (mV)	4875
	SLOPE (mV/dB)	69.4
	MAX LIN ERROR	0.66
	MAX ACC ERROR	0.67

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
374	714	1069	1408	1777	2106	2432	2749	3109	3481	3833	4199	4560	4875
8	1	9	1	24	5	-15	-45	-32	-7	-1	18	32	0
0.12	0.02	0.13	0.02	0.34	0.08	-0.22	-0.65	-0.46	-0.09	-0.02	0.26	0.46	0.00
0.44	0.29	0.36	0.19	0.46	0.15	-0.20	-0.67	-0.54	-0.23	-0.21	0.01	0.16	-0.34

RF Input Power (dBm)

Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

3 GHz	INTERCEPT (mV)	4929
	SLOPE (mV/dB)	70
	MAX LIN ERROR	0.21
	MAX ACC ERROR	0.69

383	724	1080	1423	1793	2125	2469	2820	3172	3543	3882	4232	4578	4928
5	-4	2	-5	15	-4	-10	-9	-7	14	3	3	-1	-1
-0.07	-0.06	0.03	-0.08	0.21	-0.05	-0.14	-0.13	-0.10	0.20	0.04	0.04	-0.02	-0.02
0.57	0.44	0.51	0.41	0.69	0.42	0.33	0.34	0.36	0.66	0.49	0.49	0.42	0.42

Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

4 GHz	INTERCEPT (mV)	4899
	SLOPE (mV/dB)	70.2
	MAX LIN ERROR	0.24
	MAX ACC ERROR	0.22

342	685	1034	1381	1753	2085	2438	2797	3161	3512	3842	4194	4533	4906
5	-3	-5	-9	12	-7	-5	3	7	17	-4	-3	-15	7
0.07	-0.04	-0.07	-0.12	0.18	-0.09	-0.07	0.05	0.09	0.24	-0.06	-0.05	-0.22	0.10
-0.01	-0.12	-0.14	-0.19	0.12	-0.15	-0.11	0.01	0.06	0.21	-0.08	-0.06	-0.22	0.10

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

5 GHz	INTERCEPT (mV)	4895
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.2
	MAX ACC ERROR	0.36

331	674	1021	1369	1739	2078	2430	2785	3141	3500	3830	4186	4531	4909
8	-1	-5	-9	9	-3	-3	0	5	12	-10	-5	-12	14
0.11	-0.01	-0.08	-0.13	0.13	-0.05	-0.04	0.00	0.07	0.17	-0.14	-0.08	-0.17	0.20
-0.17	-0.28	-0.33	-0.36	-0.08	-0.25	-0.22	-0.16	-0.08	0.04	-0.25	-0.17	-0.25	0.14

Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

6 GHz	INTERCEPT (mV)	4873
	SLOPE (mV/dB)	70.5
	MAX LIN ERROR	0.43
	MAX ACC ERROR	0.82

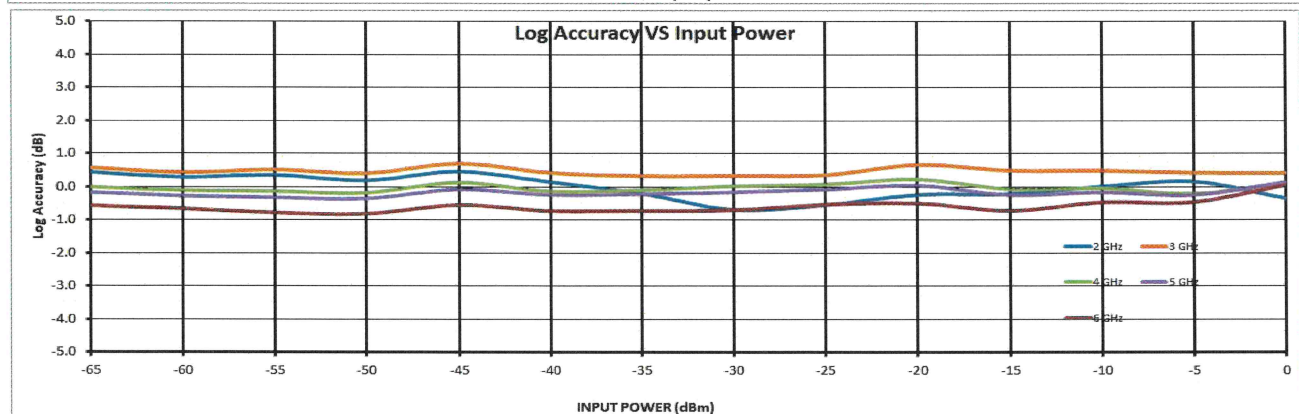
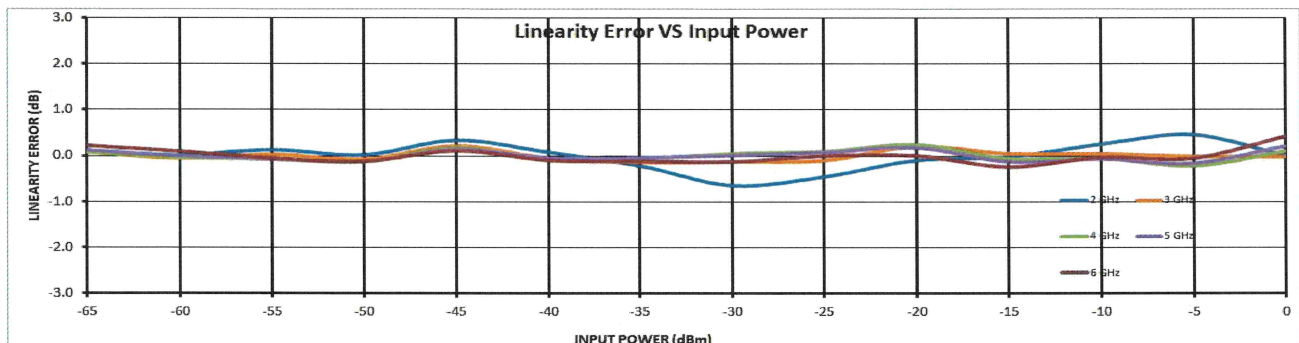
303	647	989	1337	1706	2044	2395	2747	3109	3462	3797	4165	4516	4903
16	7	-4	-8	8	-7	-9	-9	0	0	-18	-2	-4	30
0.22	0.10	-0.05	-0.12	0.11	-0.10	-0.12	-0.13	0.00	0.00	-0.25	-0.03	-0.06	0.43
-0.57	-0.66	-0.78	-0.82	-0.55	-0.73	-0.72	-0.70	-0.54	-0.50	-0.72	-0.47	-0.46	0.06

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

AVG. SLOPE: 70.1 mV/dB

0.57	0.55	0.65	0.61	0.62	0.58	0.53	0.52	0.45	0.58	0.61	0.48	0.44	0.38
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Flatness dB: ±0.65 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL46504
Date: 06/27/2024
Tested By: F. Cortes
Test Temp: +85°C
Input Port: RF Port

DC Offset: -55 mV



Frequency

2 GHz	INTERCEPT (mV)	4628
	SLOPE (mV/dB)	68.5
	MAX LIN ERROR	0.87
	MAX ACC ERROR	1.18

3 GHz	INTERCEPT (mV)	4704
	SLOPE (mV/dB)	69.3
	MAX LIN ERROR	0.47
	MAX ACC ERROR	0.95

4 GHz	INTERCEPT (mV)	4672
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.53
	MAX ACC ERROR	0.47

5 GHz	INTERCEPT (mV)	4672
	SLOPE (mV/dB)	69.9
	MAX LIN ERROR	0.44
	MAX ACC ERROR	0.45

6 GHz	INTERCEPT (mV)	4648
	SLOPE (mV/dB)	70.5
	MAX LIN ERROR	0.43
	MAX ACC ERROR	1.16

AVG. SLOPE: 69.6 mV/dB

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
166	517	862	1208	1560	1893	2227	2559	2920	3269	3610	3972	4297	4582	
-12	-3	-1	3	13	3	-5	-15	4	10	9	29	11	-46	
-0.18	-0.05	-0.01	0.04	0.19	0.05	-0.07	-0.22	0.05	0.15	0.13	0.42	0.17	-0.67	
0.37	0.42	0.37	0.34	0.40	0.19	-0.01	-0.24	-0.06	-0.04	-0.14	0.06	-0.27	-1.18	
185	549	892	1238	1593	1926	2277	2639	2990	3338	3665	4015	4358	4671	
-16	1	-2	-2	6	-7	-2	13	18	20	0	4	0	-33	
-0.23	0.02	-0.03	-0.03	0.09	-0.10	-0.03	0.19	0.26	0.28	0.00	0.06	0.01	-0.47	
0.65	0.88	0.80	0.78	0.88	0.66	0.70	0.91	0.95	0.95	0.65	0.68	0.60	0.10	
125	460	810	1163	1511	1855	2210	2595	2957	3295	3614	3964	4306	4660	
8	-8	-8	-5	-8	-14	-9	25	37	24	-7	-7	-16	-12	
0.11	-0.11	-0.11	-0.08	-0.11	-0.20	-0.14	0.36	0.53	0.35	-0.10	-0.10	-0.22	-0.17	
-0.22	-0.40	-0.37	-0.30	-0.30	-0.36	-0.26	0.27	0.47	0.33	-0.09	-0.06	-0.14	-0.06	
131	471	821	1172	1521	1866	2221	2596	2955	3292	3612	3965	4312	4663	
3	-6	-6	-4	-5	-10	-4	21	31	18	-11	-8	-10	-9	
0.04	-0.09	-0.08	-0.06	-0.07	-0.14	-0.06	0.31	0.44	0.26	-0.16	-0.11	-0.15	-0.13	
-0.13	-0.24	-0.22	-0.17	-0.16	-0.20	-0.10	0.29	0.45	0.29	-0.11	-0.04	-0.06	-0.01	
95	407	767	1119	1460	1813	2162	2542	2916	3245	3572	3935	4292	4665	
31	-10	-3	-3	-16	-14	-18	9	31	7	-19	-6	-4	17	
0.43	-0.14	-0.04	-0.05	-0.21	-0.21	-0.26	0.13	0.43	0.10	-0.26	-0.12	-0.05	0.23	
-0.65	-1.16	-0.99	-0.93	-1.03	-0.96	-0.95	-0.49	-0.11	-0.39	-0.69	-0.47	-0.34	0.01	
0.65	1.02	0.90	0.85	0.96	0.81	0.83	0.70	0.53	0.67	0.67	0.57	0.47	0.64	

RF Input Power (dBm)

Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

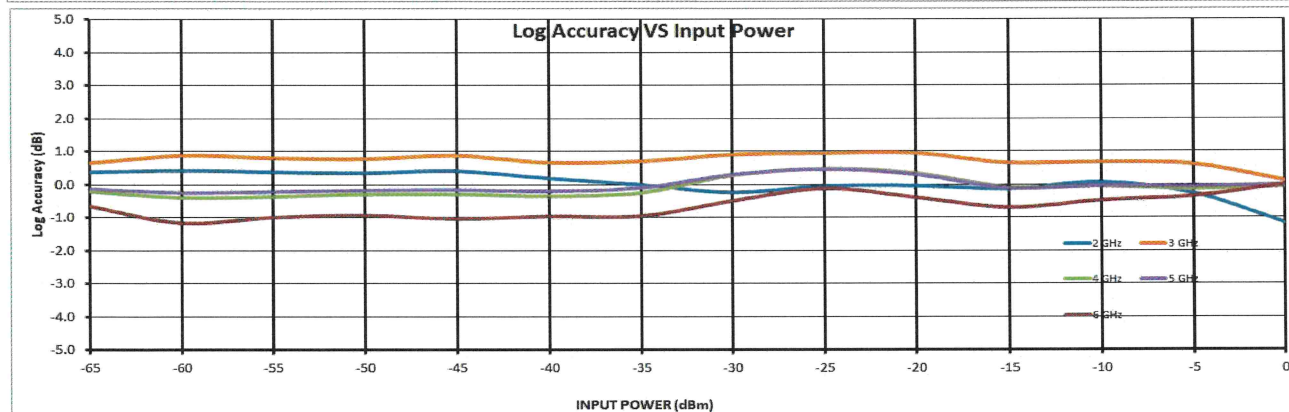
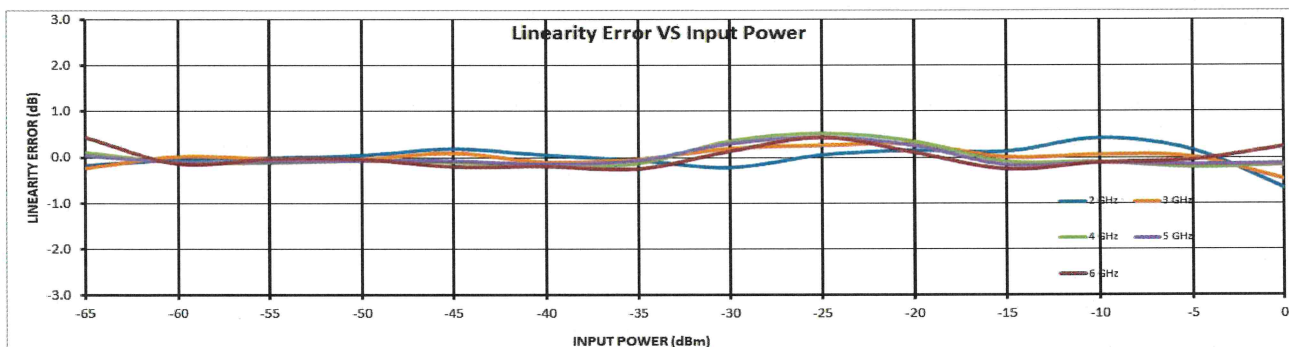
Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

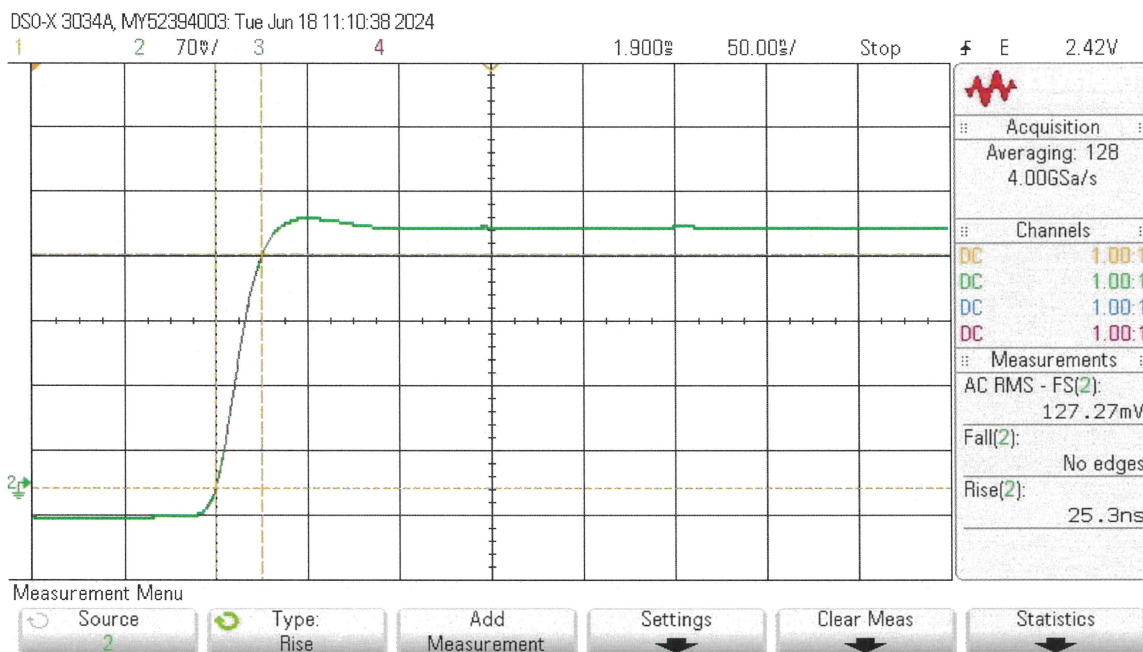
Flatness dB: ± 1.02 dB



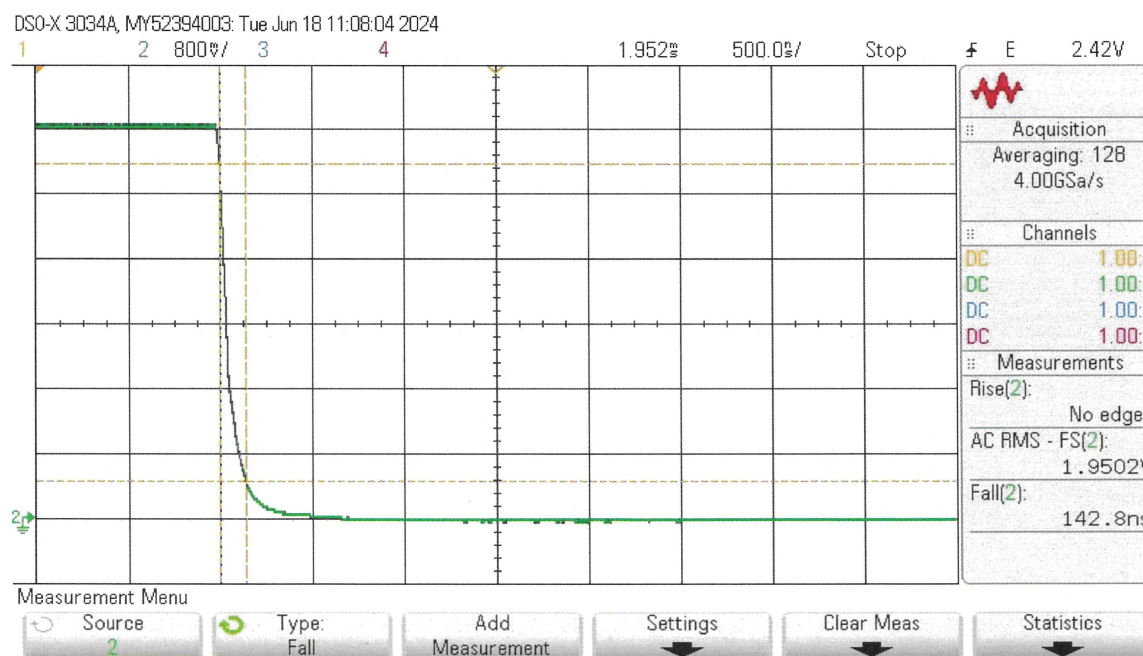


Summary Data
For
EWDM-2G6G-65-70MV-1

Rise Time



Fall and Recovery Time





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

Settling Time

