



Rev: A1



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

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	+13.29 dB MAX +11.17 dB MIN	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	±1.1 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	+7.16 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-25 dBc	
17	SW Third Harmonic:	-12 dBc MIN	-44 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	69.5 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	±0.29 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	±1.07 dB	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	±1.12 dB	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	28 mV	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	25.5 ns	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	144.7 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	± 0.86 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	1.9 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:	$75 \pm 1 \Omega$	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	< 150 mV	



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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 @ 625 mA -15 V @ 134 mA	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	PASS	

QA/QC Approval:

K. Luter

Date:

6-27-24



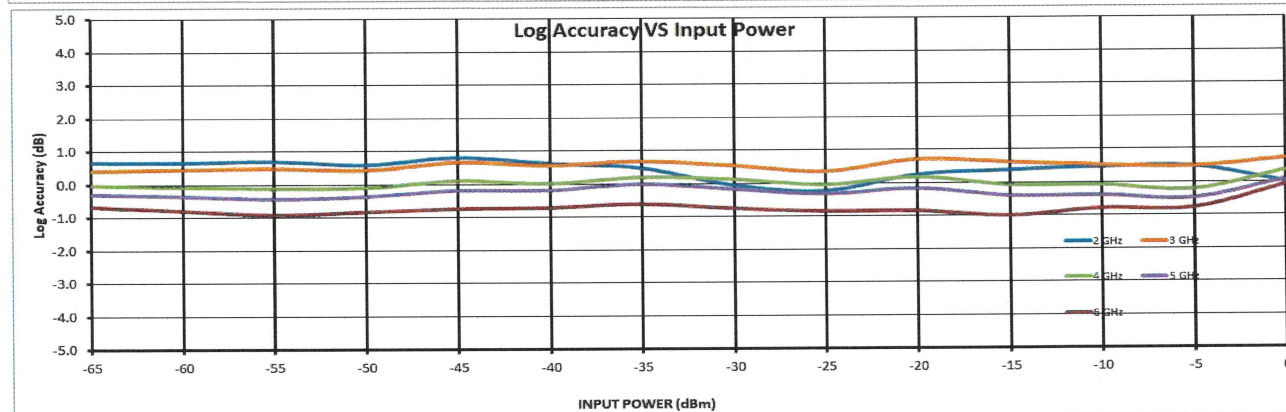
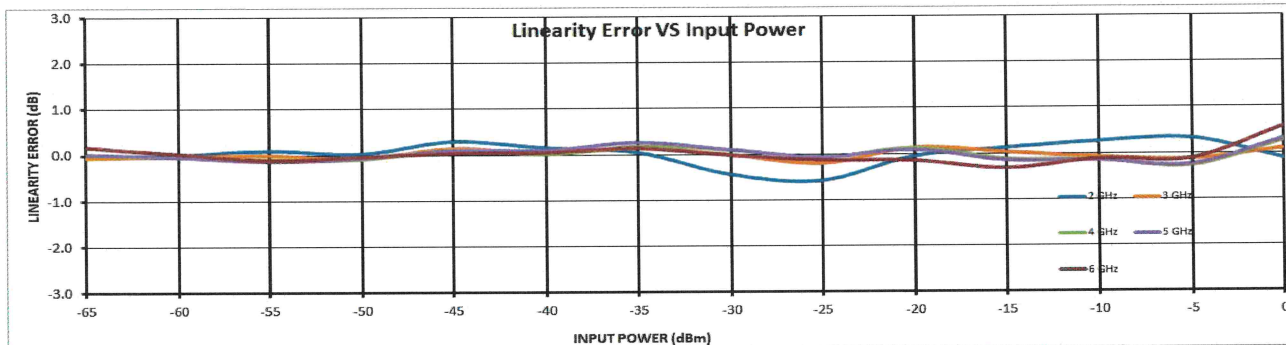
Summary Data For EWDM-2G6G-65-70MV-1

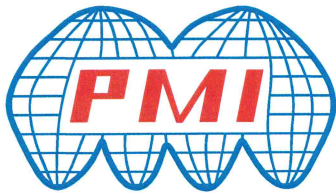
Model: EWDM-2G6G-65-70MV-1
Serial No: PL42366
Date: 06/27/24
Tested By: F. Cortes
Test Temp: +25°C
Input Port: RF Port

DC Offset: 16 mV



Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
2 GHz	INTERCEPT (mV)	4895	372	722	1076	1419	1785	2123	2463	2777	3115	3500	3860	4217	4569	4886
	SLOPE (mV/dB)	69.5	-2	0	6	2	20	10	2	-31	-41	-4	8	18	22	-9
	MAX LIN ERROR	0.69	-0.03	0.00	0.09	0.02	0.28	0.14	0.03	-0.45	-0.59	-0.06	0.12	0.25	0.31	-0.13
	MAX ACC ERROR	0.81	0.67	0.66	0.70	0.59	0.81	0.62	0.47	-0.06	-0.24	0.25	0.38	0.47	0.48	0.00
3 GHz	INTERCEPT (mV)	4930	364	708	1061	1408	1775	2119	2478	2819	3157	3633	3877	4221	4569	4937
	SLOPE (mV/dB)	70.3	-4	-2	0	-5	10	3	10	-1	-15	10	2	-6	-9	7
	MAX LIN ERROR	0.21	-0.06	-0.02	-0.01	-0.07	0.15	0.04	0.14	-0.01	-0.21	0.14	0.03	-0.08	-0.13	0.10
	MAX ACC ERROR	0.73	0.41	0.46	0.49	0.43	0.66	0.57	0.68	0.54	0.36	0.72	0.82	0.52	0.48	0.73
4 GHz	INTERCEPT (mV)	4891	323	670	1018	1370	1735	2080	2443	2789	3128	3494	3828	4178	4520	4910
	SLOPE (mV/dB)	70.3	1	-3	-7	-6	7	1	13	7	-5	9	-8	-10	-19	19
	MAX LIN ERROR	0.28	0.02	-0.04	-0.09	-0.09	0.11	0.01	0.18	0.10	-0.08	0.13	-0.12	-0.14	-0.27	0.28
	MAX ACC ERROR	0.34	-0.03	-0.08	-0.12	-0.11	0.09	0.01	0.18	0.12	-0.05	0.16	-0.08	-0.09	-0.21	0.34
5 GHz	INTERCEPT (mV)	4871	304	651	996	1352	1715	2066	2429	2769	3109	3471	3806	4157	4502	4892
	SLOPE (mV/dB)	70.3	1	-3	-10	-5	6	6	18	6	-5	5	-11	-11	-18	21
	MAX LIN ERROR	0.3	0.01	-0.05	-0.14	-0.07	0.09	0.09	0.25	0.09	-0.07	0.08	-0.16	-0.16	-0.25	0.30
	MAX ACC ERROR	0.47	-0.30	-0.35	-0.44	-0.36	-0.19	-0.19	-0.01	-0.17	-0.32	-0.16	-0.39	-0.39	-0.47	0.09
6 GHz	INTERCEPT (mV)	4841	278	620	962	1319	1676	2029	2387	2728	3072	3423	3763	4129	4481	4881
	SLOPE (mV/dB)	70.4	12	2	-8	-3	2	3	10	-1	-9	-10	-22	-8	-8	40
	MAX LIN ERROR	0.67	0.17	0.03	-0.11	-0.04	0.03	0.05	0.14	-0.02	-0.13	-0.15	-0.31	-0.11	-0.11	0.57
	MAX ACC ERROR	1	-0.67	-0.80	-0.92	-0.83	-0.75	-0.72	-0.81	-0.75	-0.85	-0.85	-1.00	-0.79	-0.77	-0.07
AVG. SLOPE: 70.2 mV/dB		0.67	0.73	0.81	0.71	0.78	0.67	0.65	0.65	0.61	0.78	0.81	0.66	0.63	0.40	Flatness dB: ±0.81 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42366
Date: 06/27/24
Tested By: F. Cortes
Test Temp: +25°C
Input Port: BIT Port

DC Offset: 28 mV



Frequency

2 GHz	INTERCEPT (mV)	4909
	SLOPE (mV/dB)	69.5
	MAX LIN ERROR	0.61
	MAX ACC ERROR	0.83

3 GHz	INTERCEPT (mV)	4943
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.23
	MAX ACC ERROR	0.8

4 GHz	INTERCEPT (mV)	4903
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.29
	MAX ACC ERROR	0.38

5 GHz	INTERCEPT (mV)	4877
	SLOPE (mV/dB)	70.2
	MAX LIN ERROR	0.34
	MAX ACC ERROR	0.66

6 GHz	INTERCEPT (mV)	4848
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.67
	MAX ACC ERROR	1.07

AVG. SLOPE: 70.1 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
389	734	1089	1433	1800	2140	2479	2790	3128	3512	3874	4230	4584	4903
0	-2	5	1	20	13	4	-33	-43	-6	8	16	22	-6
0.01	-0.03	0.07	0.02	0.29	0.18	0.06	-0.47	-0.61	-0.09	0.11	0.23	0.32	-0.09
0.71	0.63	0.70	0.60	0.83	0.68	0.52	-0.05	-0.23	0.25	0.41	0.49	0.54	0.09
374	721	1075	1423	1793	2137	2495	2833	3170	3546	3891	4233	4582	4953
-1	-5	-3	-6	13	5	12	-2	-16	8	2	-7	-10	10
-0.01	-0.07	-0.04	-0.09	0.18	0.07	0.17	-0.02	-0.23	0.12	0.03	-0.11	-0.14	0.14
0.50	0.45	0.50	0.46	0.73	0.64	0.75	0.57	0.37	0.73	0.65	0.53	0.51	0.80
336	683	1030	1385	1761	2096	2459	2801	3139	3506	3840	4191	4533	4924
0	-4	-8	-5	10	3	15	6	-8	8	-9	-10	-19	21
0.00	-0.06	-0.12	-0.07	0.14	0.05	0.22	0.08	-0.11	0.11	-0.13	-0.14	-0.27	0.29
-0.04	-0.09	-0.15	-0.08	0.14	0.06	0.23	0.11	-0.07	0.16	-0.07	-0.07	-0.19	0.38
320	663	1007	1362	1726	2077	2440	2777	3117	3479	3814	4164	4508	4901
4	-4	-11	-7	6	7	19	5	-6	5	-11	-12	-19	24
0.06	-0.06	-0.15	-0.10	0.09	0.09	0.27	0.07	-0.09	0.07	-0.15	-0.17	-0.26	0.34
-0.27	-0.38	-0.47	-0.41	-0.22	-0.22	-0.04	-0.23	-0.38	-0.22	-0.44	-0.45	-0.55	0.06
289	628	970	1328	1688	2039	2398	2736	3079	3430	3770	4137	4488	4888
13	0	-9	-3	5	5	12	-2	-11	-23	-8	-8	-8	40
0.18	0.00	-0.13	-0.04	0.07	0.06	0.17	-0.03	-0.15	-0.16	-0.33	-0.11	-0.12	0.57
-0.71	-0.88	-1.00	-0.90	-0.76	-0.76	-0.64	-0.82	-0.93	-0.92	-1.07	-0.84	-0.83	-0.13
0.71	0.76	0.85	0.75	0.80	0.72	0.69	0.69	0.65	0.83	0.86	0.68	0.68	0.46

RF Input Power (dBm)

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

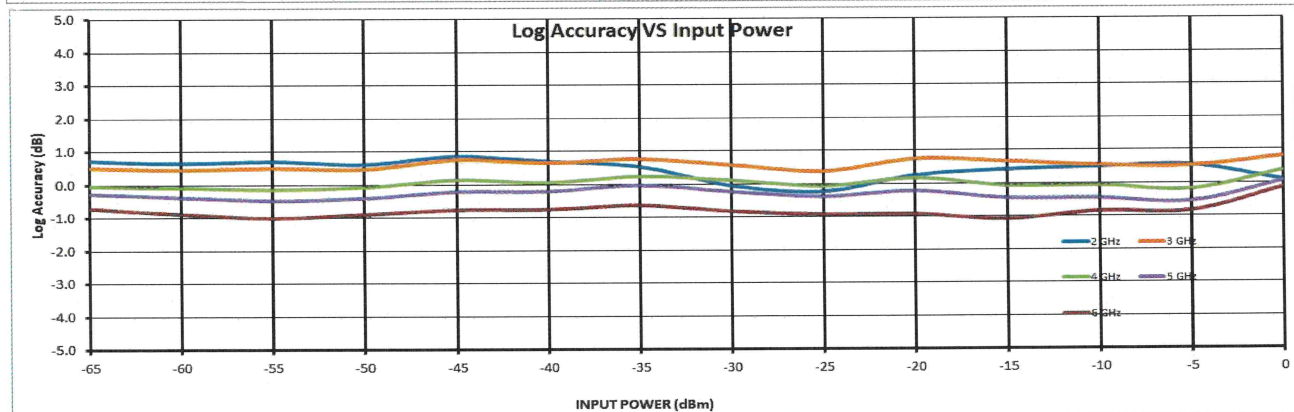
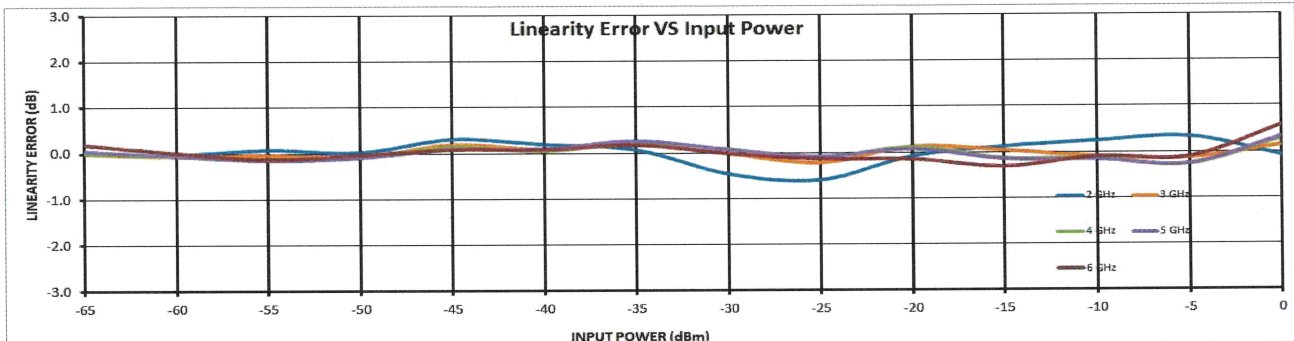
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ERROR (mV)
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LOG ACCURACY (dB)

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

Flatness dB: ±0.86 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42366
Date: 06/27/24
Tested By: F. Cortes
Test Temp: 0°C
Input Port: RF Port

DC Offset: 46 mV



Frequency

2 GHz	INTERCEPT (mV)	4944
	SLOPE (mV/dB)	69.8
	MAX LIN ERROR	0.67
	MAX ACC ERROR	0.76

3 GHz	INTERCEPT (mV)	4976
	SLOPE (mV/dB)	70.4
	MAX LIN ERROR	0.27
	MAX ACC ERROR	0.79

4 GHz	INTERCEPT (mV)	4936
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.31
	MAX ACC ERROR	0.36

5 GHz	INTERCEPT (mV)	4916
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.37
	MAX ACC ERROR	0.6

6 GHz	INTERCEPT (mV)	4885
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.6
	MAX ACC ERROR	1.04

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
410	752	1109	1455	1825	2165	2504	2815	3152	3538	3901	4258	4619	4947	
4	-3	5	2	23	14	4	-35	-47	-10	4	12	24	3	
0.05	-0.05	0.07	0.02	0.32	0.19	0.05	-0.49	-0.67	-0.14	0.06	0.18	0.35	0.05	
0.61	0.47	0.56	0.48	0.75	0.59	0.42	-0.15	-0.35	0.14	0.31	0.40	0.54	0.21	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
398	743	1100	1449	1821	2166	2524	2859	3196	3573	3920	4263	4613	4988	
0	-7	-2	-5	15	7	13	-4	-19	6	1	-8	-10	13	
0.00	-0.10	-0.03	-0.08	0.21	0.11	0.19	-0.05	-0.27	0.09	0.02	-0.11	-0.14	0.18	
0.43	0.35	0.43	0.40	0.70	0.61	0.71	0.48	0.27	0.64	0.58	0.47	0.45	0.79	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
363	708	1058	1412	1784	2128	2490	2831	3167	3534	3871	4221	4563	4967	
0	-7	-9	-6	14	6	17	6	-10	6	-9	-11	-20	22	
0.00	-0.10	-0.12	-0.09	0.20	0.09	0.24	0.09	-0.14	0.08	-0.13	-0.15	-0.29	0.31	
-0.06	-0.15	-0.17	-0.13	0.17	0.07	0.22	0.08	-0.14	0.09	-0.11	-0.13	-0.26	0.35	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
350	694	1040	1396	1766	2115	2478	2813	3149	3513	3849	4201	4546	4942	
1	-6	-11	-7	12	10	21	5	-10	2	-13	-12	-19	26	
0.02	-0.08	-0.16	-0.09	0.17	0.14	0.30	0.07	-0.15	0.03	-0.18	-0.18	-0.27	0.37	
-0.25	-0.35	-0.42	-0.36	-0.09	-0.12	0.06	-0.18	-0.39	-0.21	-0.43	-0.42	-0.50	0.14	

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
325	665	1007	1364	1729	2080	2438	2774	3113	3466	3806	4174	4524	4927	
11	0	-10	-5	9	8	14	-1	-14	-13	-24	-8	-9	42	
0.16	-0.01	-0.14	-0.07	0.12	0.11	0.20	-0.02	-0.20	-0.18	-0.34	-0.11	-0.13	0.60	
-0.61	-0.76	-0.89	-0.81	-0.61	-0.62	-0.52	-0.73	-0.91	-0.88	-1.04	-0.80	-0.82	-0.08	

AVG. SLOPE: 70.2 mV/dB

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.61	0.62	0.73	0.65	0.68	0.61	0.61	0.61	0.59	0.76	0.81	0.63	0.68	0.43	

RF Input Power (dBm)

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

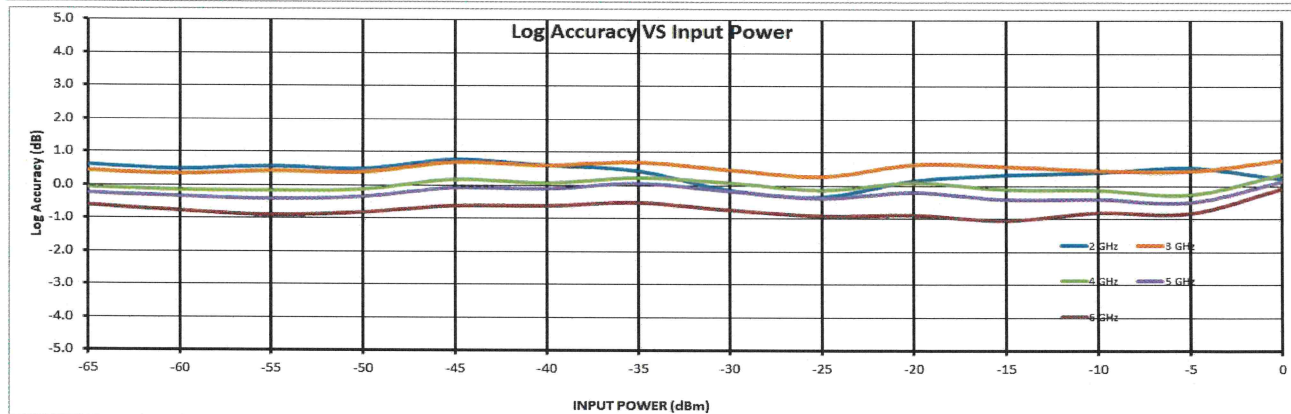
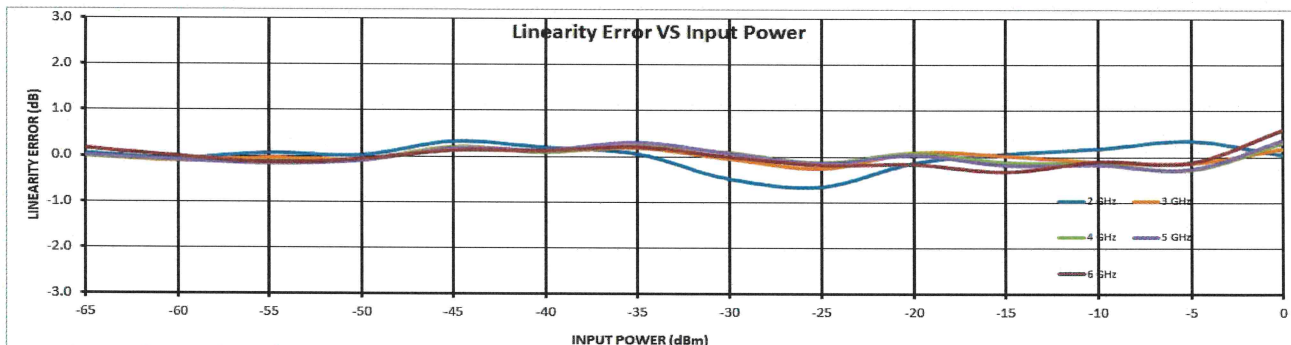
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LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

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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: ±0.81 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42366
Date: 06/27/2024
Tested By: F. Cortes
Test Temp: +85°C
Input Port: RF Port



DC Offset: -23 mV

Frequency

2 GHz	INTERCEPT (mV)	4738
	SLOPE (mV/dB)	68.8
	MAX LIN ERROR	0.52
	MAX ACC ERROR	0.76

3 GHz	INTERCEPT (mV)	4784
	SLOPE (mV/dB)	69.6
	MAX LIN ERROR	0.26
	MAX ACC ERROR	0.95

4 GHz	INTERCEPT (mV)	4742
	SLOPE (mV/dB)	69.8
	MAX LIN ERROR	0.24
	MAX ACC ERROR	0.26

5 GHz	INTERCEPT (mV)	4720
	SLOPE (mV/dB)	69.7
	MAX LIN ERROR	0.19
	MAX ACC ERROR	0.46

6 GHz	INTERCEPT (mV)	4689
	SLOPE (mV/dB)	70
	MAX LIN ERROR	0.36
	MAX ACC ERROR	1.12

AVG. SLOPE: 69.6 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
261	614	956	1298	1651	1992	2332	2656	2999	3374	3726	4080	4400	4702
-7	2	0	-1	8	5	1	-19	-20	11	20	30	6	-36
-0.10	0.03	0.01	-0.02	0.11	0.07	0.01	-0.27	-0.29	0.17	0.29	0.43	0.09	-0.52
0.68	0.76	0.67	0.59	0.67	0.57	0.46	0.11	0.05	0.44	0.50	0.59	0.19	-0.47
256	612	953	1297	1653	1999	2354	2703	3044	3410	3745	4089	4430	4768
-5	3	-4	-8	0	-2	6	7	0	18	5	1	-6	-16
-0.07	0.04	-0.06	-0.11	0.00	-0.02	0.08	0.10	0.00	0.26	0.07	0.02	-0.08	-0.22
0.61	0.73	0.63	0.58	0.70	0.67	0.77	0.79	0.69	0.95	0.77	0.72	0.62	0.48
211	562	892	1245	1694	1943	2303	2682	3007	3382	3689	4038	4377	4744
7	-1	-10	-6	-6	-6	5	15	11	17	-5	-6	-16	2
0.10	-0.01	-0.14	-0.09	-0.09	-0.09	0.07	0.21	0.15	0.24	-0.08	-0.08	-0.22	0.03
-0.04	-0.13	-0.25	-0.17	-0.15	-0.14	0.04	0.20	0.16	0.26	-0.03	-0.02	-0.14	0.13
200	536	877	1231	1678	1933	2291	2642	2988	3339	3668	4017	4358	4723
8	-4	-11	-8	-7	0	9	12	10	12	-7	-6	-13	3
0.12	-0.06	-0.16	-0.08	-0.10	0.00	0.13	0.17	0.14	0.18	-0.10	-0.09	-0.19	0.05
-0.19	-0.36	-0.46	-0.37	-0.38	-0.28	-0.13	-0.09	-0.11	-0.07	-0.34	-0.32	-0.42	-0.17
166	486	833	1189	1527	1886	2238	2593	2945	3286	3621	3985	4335	4714
25	-4	-7	-1	-13	-4	-2	4	6	-3	-18	-4	-4	25
0.36	-0.06	-0.10	-0.02	-0.19	-0.05	-0.02	0.05	0.08	-0.05	-0.26	-0.06	-0.05	0.36
-0.68	-1.08	-1.09	-0.98	-1.12	-0.96	-0.89	-0.79	-0.73	-0.83	-1.01	-0.78	-0.75	-0.30
0.68	0.92	0.88	0.78	0.91	0.81	0.83	0.79	0.71	0.89	0.89	0.75	0.68	0.47

RF Input Power (dBm)

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

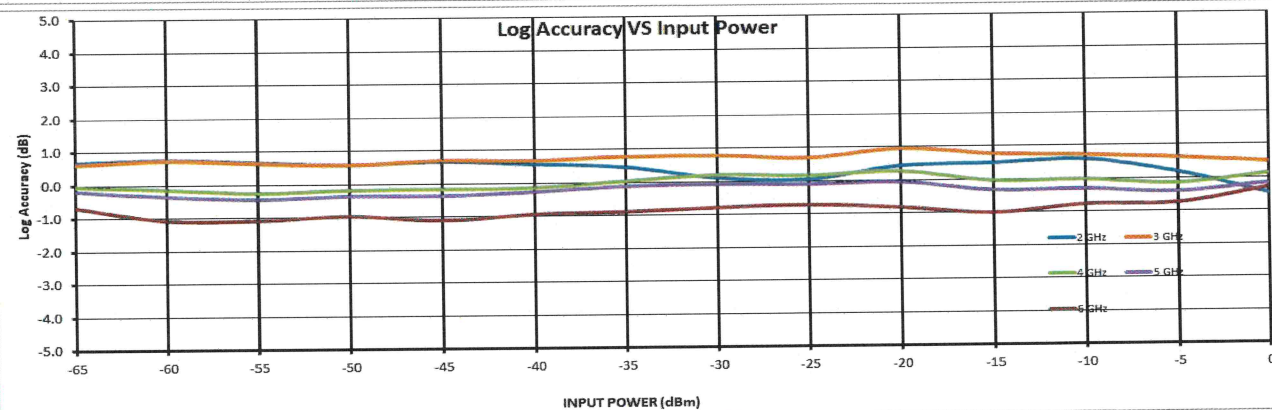
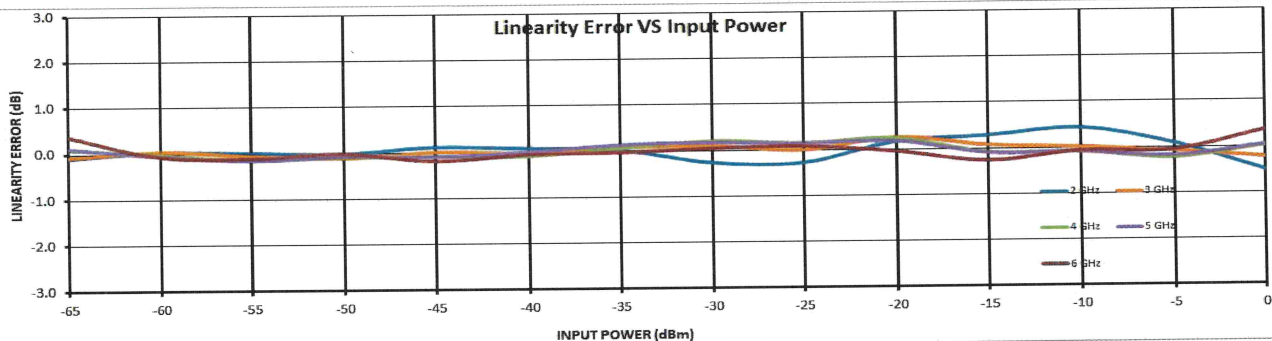
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

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)

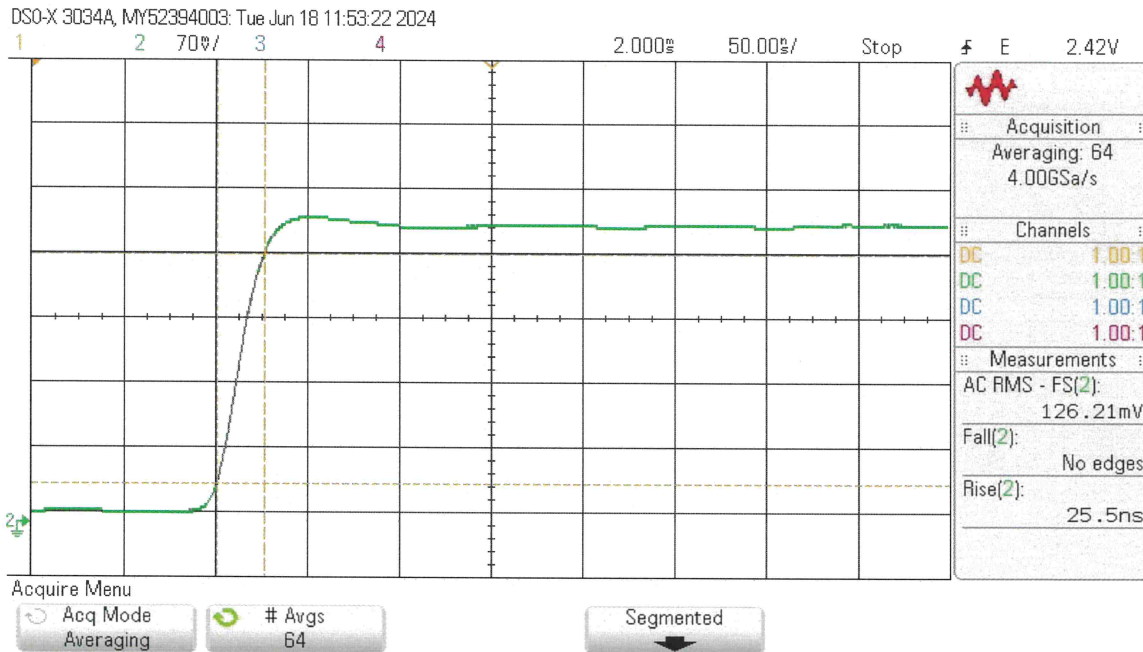
Flatness dB: ±0.92 dB



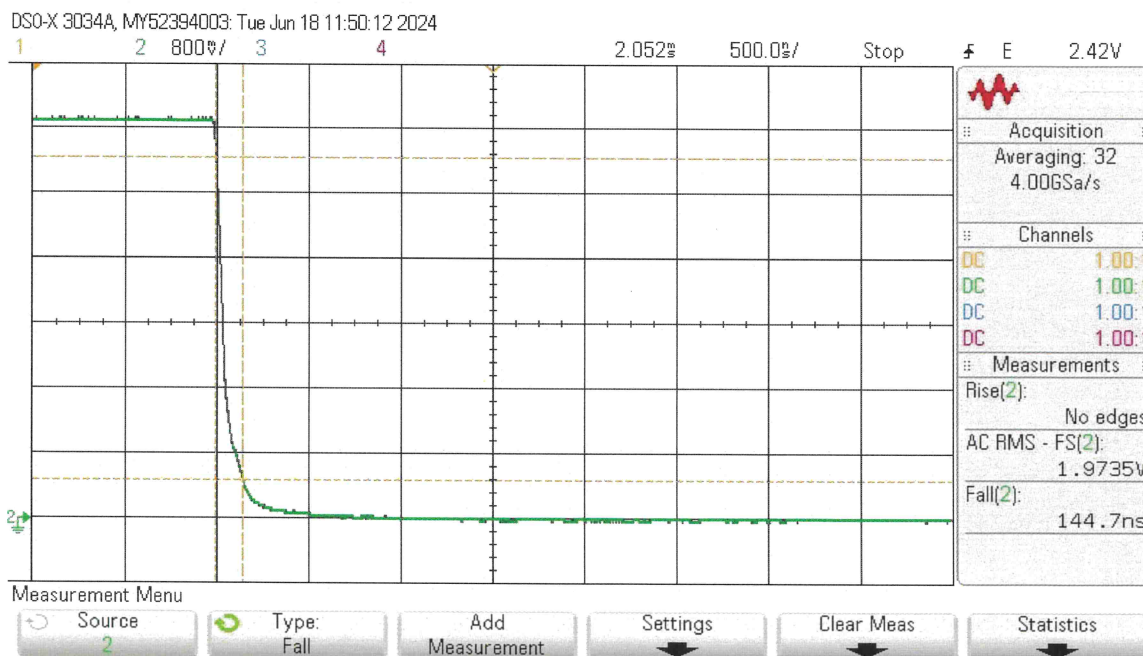


Summary Data
For
EWDM-2G6G-65-70MV-1

Rise Time



Fall and Recovery Time

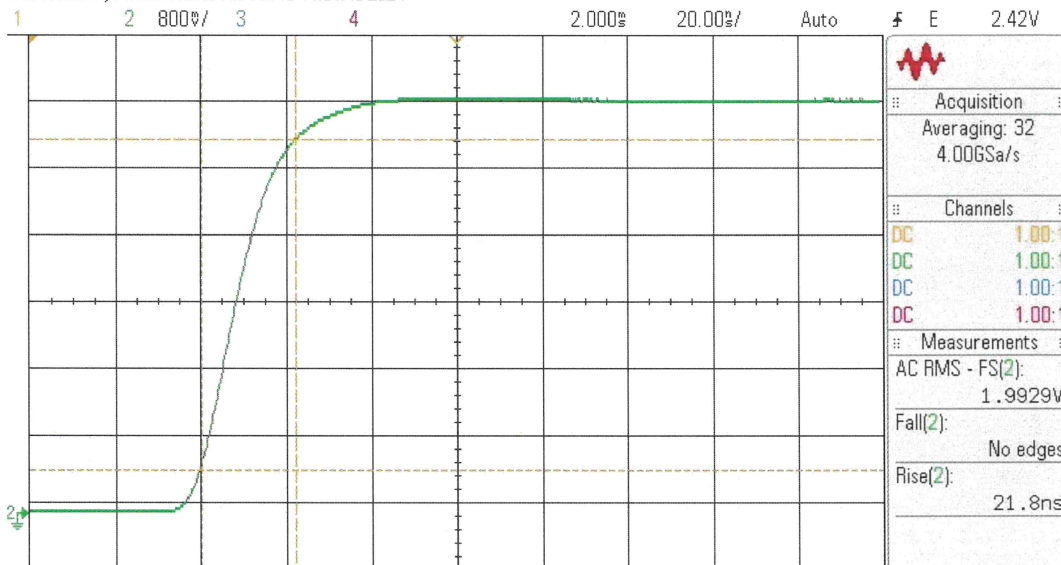




Summary Data
For
EWDM-2G6G-65-70MV-1

Settling Time

DSO-X 3034A, MY52394003: Tue Jun 18 11:51:45 2024



Measurement Menu

Source 2 Type: Rise Add Measurement Settings Clear Meas Statistics