





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

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	+12.9 dB MAX +10.88 dB MIN	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	±1 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	+6.96 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-13 dBc	
17	SW Third Harmonic:	-12 dBc MIN	-33 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	69.6 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	±0.4 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	±0.82 dB	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	±1.25 dB	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	-24 mV	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	25.8 ns	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	158.8 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	

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

29	VIDEO OUT Video Frequency Flatness:	± 1.0 dB MAX	± 0.59 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	1.5 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	

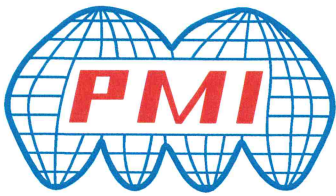


Summary Data
For
EWDM-2G6G-65-70MV-1

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 @ 625 mA -15 V @ 135 mA	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	PASS	

QA/QC Approval: H. Linton

Date: 6-27-24



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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42356
Date:: 06/27/24
Tested By: F. Cortes
Test Temp: +25°C
Input Port: RF Port

DC Offset: -19 mV



Frequency

2 GHz	INTERCEPT (mV)	4839
	SLOPE (mV/dB)	70.2
	MAX LIN ERROR	0.28
	MAX ACC ERROR	0.82

3 GHz	INTERCEPT (mV)	4814
	SLOPE (mV/dB)	69.6
	MAX LIN ERROR	0.31
	MAX ACC ERROR	0.52

4 GHz	INTERCEPT (mV)	4771
	SLOPE (mV/dB)	69.6
	MAX LIN ERROR	0.4
	MAX ACC ERROR	0.58

5 GHz	INTERCEPT (mV)	4785
	SLOPE (mV/dB)	69.8
	MAX LIN ERROR	0.33
	MAX ACC ERROR	0.49

6 GHz	INTERCEPT (mV)	4784
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.43
	MAX ACC ERROR	0.7

AVG. SLOPE: 69.8 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
283	632	977	1323	1689	2024	2384	2730	3080	3449	3786	4136	4508	4822
5	3	-3	-8	7	-9	1	-4	-5	13	-1	-2	20	-17
0.07	0.04	-0.04	-0.11	0.10	-0.12	0.01	-0.06	-0.07	0.19	-0.01	-0.02	0.28	-0.25
0.33	0.33	0.27	0.22	0.46	0.26	0.41	0.36	0.38	0.66	0.48	0.49	0.82	0.32
282	634	981	1327	1693	2025	2383	2725	3074	3428	3761	4115	4487	4793
-5	-1	-3	-5	13	-3	7	0	1	7	-8	-3	21	-21
-0.08	-0.02	-0.04	-0.07	0.19	-0.05	0.09	0.00	0.02	0.10	-0.12	-0.04	0.31	-0.30
0.31	0.35	0.32	0.28	0.52	0.27	0.40	0.29	0.29	0.36	0.13	0.19	0.52	-0.10
262	596	939	1291	1653	1984	2341	2683	3031	3370	3712	4075	4451	4762
3	-1	-6	-2	13	-4	5	-1	-1	-10	-15	0	28	-9
0.04	-0.01	-0.08	-0.02	0.18	-0.06	0.07	-0.01	-0.01	-0.14	-0.22	0.00	0.40	-0.13
-0.11	-0.19	-0.28	-0.24	-0.06	-0.32	-0.21	-0.31	-0.33	-0.47	-0.58	-0.38	0.00	-0.64
262	600	942	1293	1655	1991	2351	2696	3040	3379	3718	4081	4459	4786
2	1	-6	-3	10	-3	8	4	-1	-10	-20	-6	23	1
0.03	0.02	-0.08	-0.05	0.14	-0.04	0.12	0.06	-0.01	-0.15	-0.29	-0.09	0.33	0.02
-0.11	-0.13	-0.24	-0.21	-0.03	-0.22	-0.06	-0.12	-0.20	-0.34	-0.49	-0.29	0.12	-0.20
237	585	926	1277	1636	1975	2336	2690	3036	3367	3703	4075	4455	4801
7	5	-4	-4	5	-7	4	8	3	-16	-30	-9	21	17
0.10	0.07	-0.06	-0.05	0.07	-0.09	0.06	0.11	0.05	-0.23	-0.43	-0.12	0.30	0.24
-0.33	-0.35	-0.46	-0.44	-0.30	-0.45	-0.28	-0.21	-0.25	-0.52	-0.70	-0.38	0.06	0.02
0.33	0.35	0.39	0.36	0.41	0.36	0.34	0.34	0.35	0.59	0.59	0.44	0.41	0.43

RF Input Power (dBm)

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

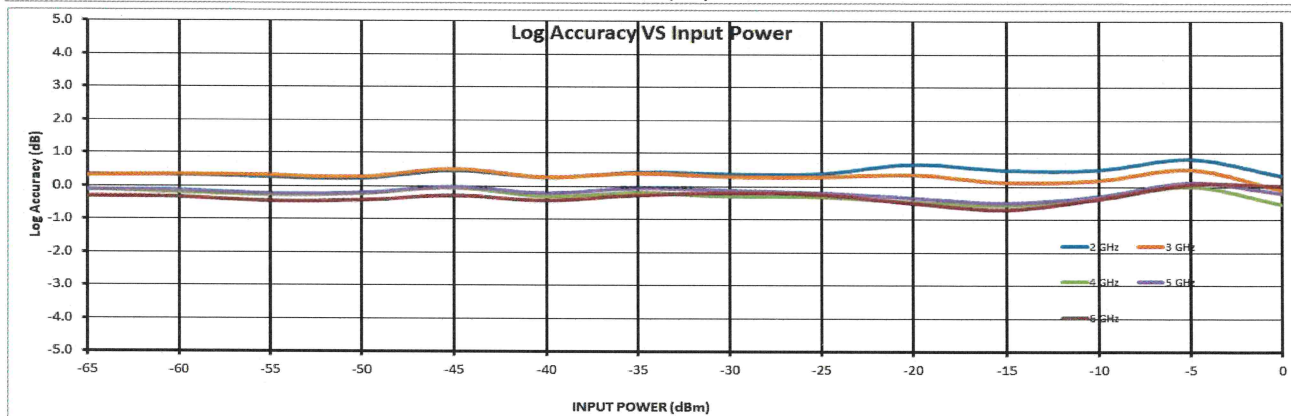
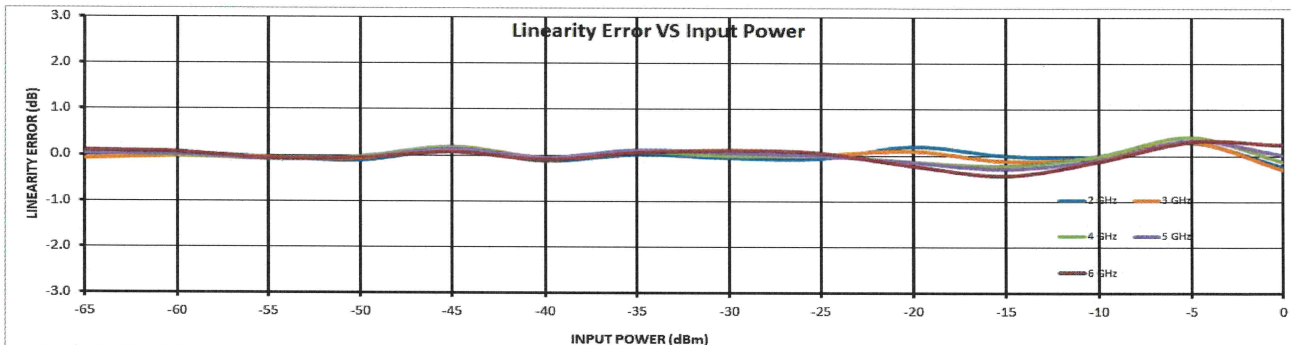
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

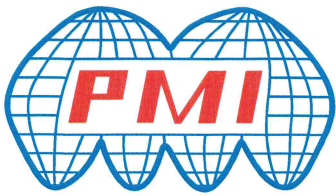
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ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

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

Flatness dB: ±0.59 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42356
Date:: 06/27/24
Tested By: F. Cortes
Test Temp: +25°C
Input Port: BIT Port

DC Offset: -24 mV



Frequency

2 GHz	INTERCEPT (mV)	4827
	SLOPE (mV/dB)	70.2
	MAX LIN ERROR	0.29
	MAX ACC ERROR	0.71

3 GHz	INTERCEPT (mV)	4808
	SLOPE (mV/dB)	69.7
	MAX LIN ERROR	0.31
	MAX ACC ERROR	0.52

4 GHz	INTERCEPT (mV)	4766
	SLOPE (mV/dB)	69.6
	MAX LIN ERROR	0.39
	MAX ACC ERROR	0.56

5 GHz	INTERCEPT (mV)	4783
	SLOPE (mV/dB)	69.8
	MAX LIN ERROR	0.34
	MAX ACC ERROR	0.44

6 GHz	INTERCEPT (mV)	4782
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.43
	MAX ACC ERROR	0.64

AVG. SLOPE: 69.9 mV/dB

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
266	621	966	1314	1677	2011	2372	2719	3070	3438	3775	4125	4494	4807	
0	4	-2	-5	7	-10	1	-3	-3	14	0	0	18	-20	
-0.01	0.06	-0.03	-0.07	0.10	-0.14	0.01	-0.05	-0.04	0.20	0.00	-0.01	0.25	-0.29	
0.19	0.27	0.21	0.19	0.38	0.17	0.33	0.30	0.32	0.59	0.42	0.43	0.71	0.19	
271	627	975	1321	1685	2017	2376	2719	3068	3422	3754	4109	4481	4787	
-8	-1	-1	-3	12	-4	6	1	2	7	-9	-2	21	-21	
-0.12	-0.01	-0.01	-0.05	0.18	-0.06	0.09	0.02	0.02	0.10	-0.13	-0.04	0.30	-0.31	
0.26	0.35	0.34	0.29	0.50	0.25	0.39	0.30	0.30	0.36	0.12	0.20	0.52	-0.10	
242	593	934	1287	1647	1977	2334	2678	3027	3366	3707	4069	4445	4766	
-1	2	-5	0	12	-6	4	0	1	-8	-15	-1	27	-10	
-0.01	0.03	-0.07	0.00	0.18	-0.08	0.05	-0.01	0.01	-0.12	-0.22	-0.01	0.39	-0.14	
-0.16	-0.13	-0.25	-0.20	-0.05	-0.32	-0.21	-0.29	-0.29	-0.44	-0.66	-0.38	0.01	-0.54	
247	598	940	1291	1652	1988	2348	2694	3038	3376	3715	4079	4458	4784	
0	2	-5	-3	12	-3	8	5	0	-11	-21	-6	24	1	
0.01	0.03	-0.07	-0.04	0.14	-0.05	0.11	0.07	0.00	-0.16	-0.30	-0.09	0.34	0.01	
-0.09	-0.06	-0.17	-0.14	0.03	-0.16	-0.01	-0.06	-0.13	-0.30	-0.44	-0.23	0.19	-0.14	
235	582	924	1276	1633	1971	2333	2688	3034	3365	3701	4072	4453	4799	
8	4	-4	-2	4	-8	3	8	4	-16	-30	-9	21	17	
0.11	0.06	-0.06	-0.03	0.06	-0.12	0.05	0.12	0.05	-0.22	-0.43	-0.13	0.30	0.24	
-0.26	-0.29	-0.39	-0.36	-0.25	-0.41	-0.23	-0.14	-0.19	-0.45	-0.64	-0.33	0.12	0.07	
0.26	0.32	0.37	0.32	0.37	0.33	0.31	0.29	0.31	0.52	0.53	0.40	0.35	0.37	

RF Input Power (dBm)

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

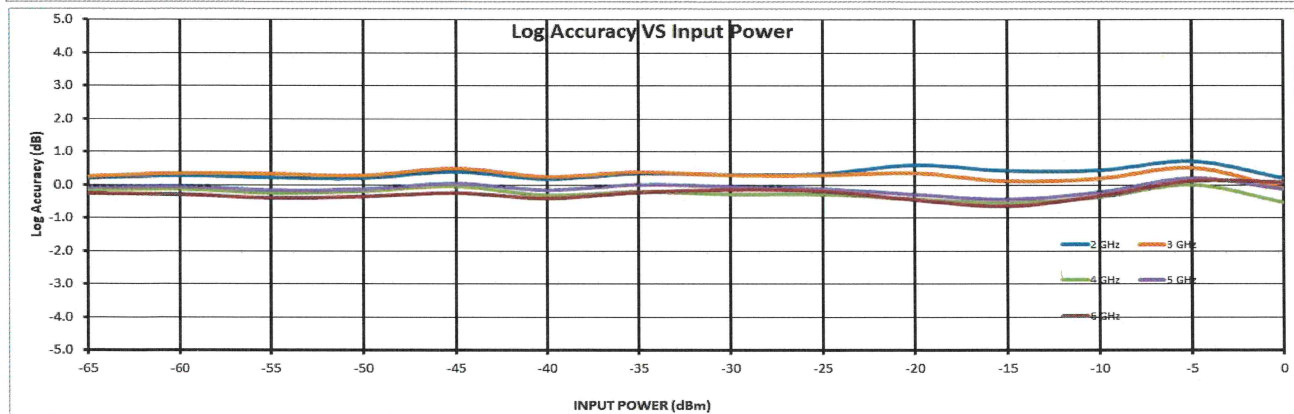
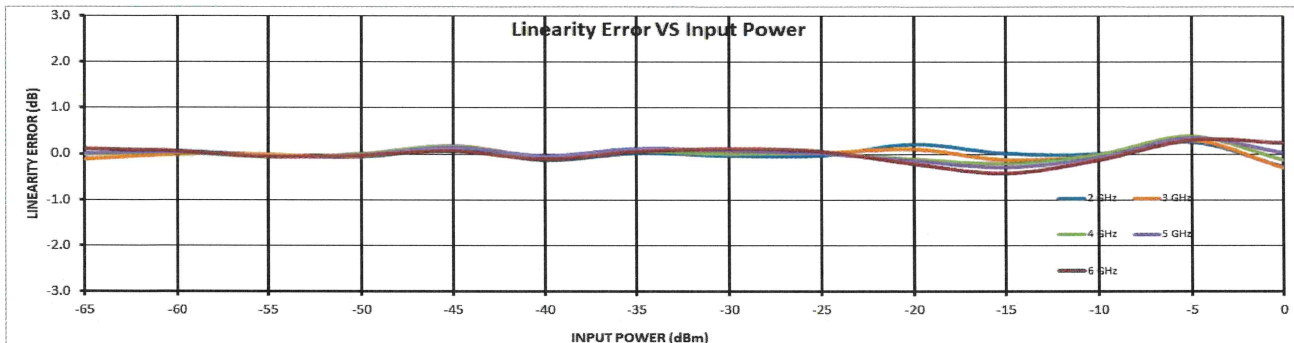
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ERROR (mV)
LINEARITY ERROR (dB)
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Error (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

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

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

Flatness dB: ±0.53 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42356
Date:: 06/27/24
Tested By: F. Cortes
Test Temp: 0°C
Input Port: RF Port

DC Offset: 3 mV



Frequency

2 GHz	INTERCEPT (mV)	4890
	SLOPE (mV/dB)	70.4
	MAX LIN ERROR	0.23
	MAX ACC ERROR	0.73

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
321	665	1012	1359	1730	2070	2427	2772	3123	3498	3832	4178	4552	4881
8	0	-5	-10	9	-3	2	-5	-7	16	-2	-8	14	-9
0.11	0.00	-0.07	-0.15	0.12	-0.05	0.02	-0.08	-0.09	0.23	-0.02	-0.11	0.20	-0.12
0.26	0.17	0.13	0.09	0.40	0.25	0.36	0.29	0.30	0.66	0.44	0.38	0.73	0.43

RF Input Power (dBm)

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

3 GHz	INTERCEPT (mV)	4858
	SLOPE (mV/dB)	69.8
	MAX LIN ERROR	0.31
	MAX ACC ERROR	0.44

323	667	1013	1361	1733	2070	2424	2763	3113	3474	3806	4166	4529	4837
0	-5	-8	-9	15	3	8	-2	-1	11	-6	-5	20	-21
0.00	-0.07	-0.11	-0.12	0.21	0.04	0.11	-0.03	-0.01	0.16	-0.08	-0.07	0.28	-0.31
0.29	0.20	0.15	0.12	0.44	0.25	0.31	0.16	0.16	0.32	0.07	0.07	0.40	-0.20

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

4 GHz	INTERCEPT (mV)	4817
	SLOPE (mV/dB)	69.7
	MAX LIN ERROR	0.37
	MAX ACC ERROR	0.61

293	632	976	1327	1696	2030	2384	2721	3070	3416	3769	4120	4494	4809
6	-3	-8	-5	15	1	6	-5	-5	-8	-13	0	25	-8
0.09	-0.05	-0.11	-0.07	0.22	0.01	0.09	-0.07	-0.07	-0.12	-0.18	0.00	0.37	-0.12
-0.14	-0.30	-0.38	-0.36	-0.09	-0.32	-0.26	-0.44	-0.45	-0.52	-0.61	-0.45	-0.10	-0.60

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

5 GHz	INTERCEPT (mV)	4828
	SLOPE (mV/dB)	69.9
	MAX LIN ERROR	0.31
	MAX ACC ERROR	0.68

292	634	977	1327	1696	2036	2392	2732	3077	3420	3761	4122	4500	4832
8	-1	-8	-7	12	3	10	0	-4	-10	-19	-7	21	4
0.09	-0.02	-0.11	-0.10	0.18	0.04	0.14	0.00	-0.06	-0.15	-0.27	-0.10	0.31	0.06
-0.16	-0.27	-0.37	-0.36	-0.09	-0.23	-0.14	-0.28	-0.35	-0.45	-0.58	-0.42	-0.02	-0.27

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

6 GHz	INTERCEPT (mV)	4829
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.43
	MAX ACC ERROR	0.76

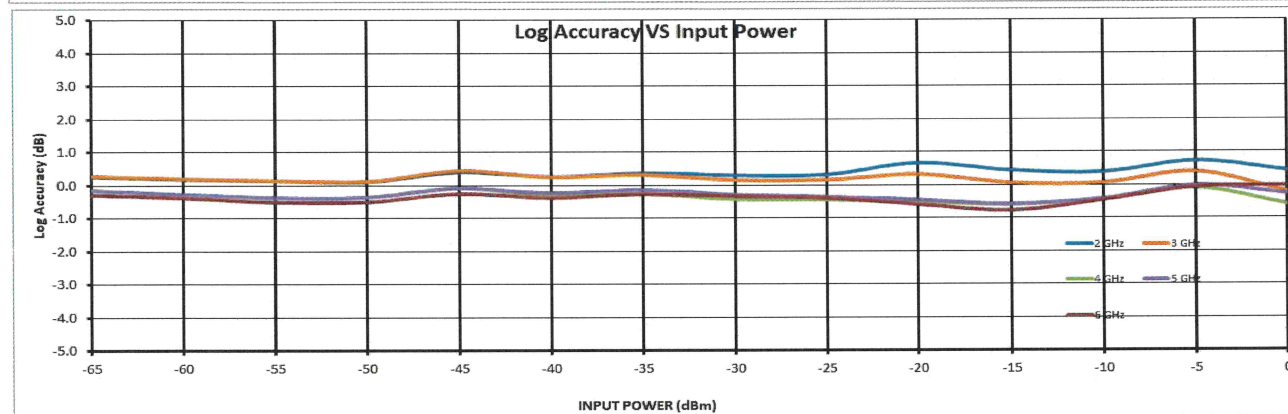
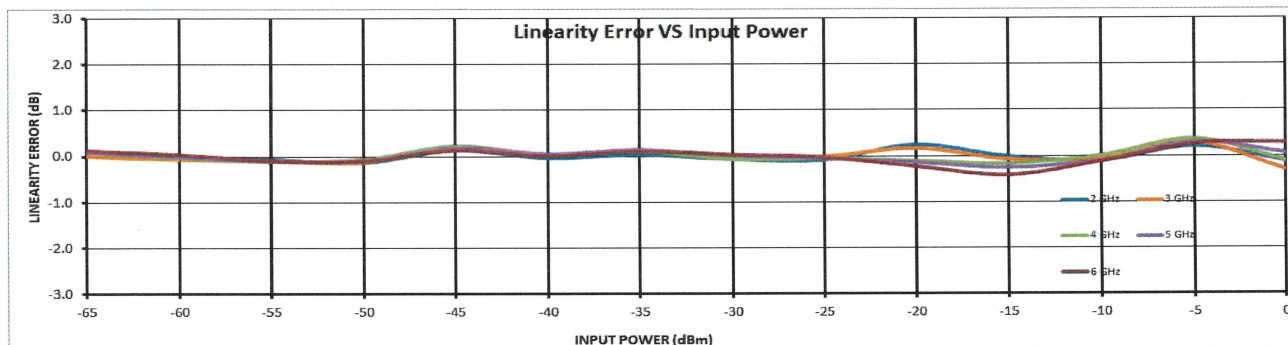
283	627	968	1318	1685	2026	2384	2729	3075	3411	3748	4120	4497	4849
9	3	-7	-7	10	0	8	2	-2	-16	-30	-8	18	20
0.13	0.04	-0.10	-0.10	0.14	0.00	0.11	0.03	-0.03	-0.23	-0.43	-0.12	0.26	0.29
-0.29	-0.37	-0.50	-0.49	-0.25	-0.37	-0.26	-0.33	-0.38	-0.58	-0.76	-0.45	-0.06	-0.03

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

AVG. SLOPE: 70 mV/dB

0.29	0.29	0.32	0.31	0.34	0.31	0.31	0.36	0.38	0.62	0.60	0.41	0.41	0.51
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Flatness dB: ±0.62 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: -39 mV



Frequency

2 GHz	INTERCEPT (mV)	4618
	SLOPE (mV/dB)	69.1
	MAX LIN ERROR	0.60
	MAX ACC ERROR	0.54

3 GHz	INTERCEPT (mV)	4603
	SLOPE (mV/dB)	68.5
	MAX LIN ERROR	0.55
	MAX ACC ERROR	0.7

4 GHz	INTERCEPT (mV)	4555
	SLOPE (mV/dB)	68.9
	MAX LIN ERROR	0.61
	MAX ACC ERROR	1.1

5 GHz	INTERCEPT (mV)	4573
	SLOPE (mV/dB)	68.9
	MAX LIN ERROR	0.38
	MAX ACC ERROR	0.86

6 GHz	INTERCEPT (mV)	4569
	SLOPE (mV/dB)	69.5
	MAX LIN ERROR	0.67
	MAX ACC ERROR	1.25

AVG. SLOPE: 69 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
151	467	804	1150	1499	1833	2192	2555	2913	3256	3589	3938	4286	4576
25	-6	-13	-13	-9	-21	-7	10	23	20	8	11	14	-42
0.36	-0.07	-0.19	-0.19	-0.14	-0.30	-0.11	0.15	0.33	0.29	0.11	0.16	0.20	-0.60
0.28	-0.13	-0.25	-0.23	-0.17	-0.32	-0.12	0.15	0.34	0.31	0.14	0.20	0.25	-0.54
162	490	826	1171	1522	1851	2207	2569	2913	3239	3567	3924	4287	4565
10	-4	-11	-8	1	-13	1	10	22	6	-9	6	27	-38
0.15	-0.06	-0.16	-0.12	0.01	-0.19	0.01	0.15	0.32	0.08	-0.13	0.09	0.39	-0.55
0.44	0.20	0.07	0.08	0.17	-0.06	0.10	0.20	0.34	0.07	-0.18	0.00	0.27	-0.70
114	410	757	1105	1448	1784	2134	2498	2861	3174	3503	3867	4241	4540
35	-13	-10	-7	-8	-16	-11	9	28	-4	-19	1	30	-15
0.51	-0.19	-0.15	-0.10	-0.12	-0.24	-0.16	0.13	0.40	-0.05	-0.28	0.01	0.44	-0.22
-0.25	-0.96	-0.93	-0.88	-0.91	-1.03	-0.96	-0.68	-0.42	-0.88	-1.10	-0.83	-0.40	-1.07
123	431	775	1122	1467	1805	2160	2522	2878	3194	3524	3884	4254	4554
26	-10	-11	-8	-7	-14	-3	15	26	-2	-16	-1	25	-19
0.38	-0.15	-0.16	-0.12	-0.11	-0.20	-0.04	0.21	0.38	-0.03	-0.24	-0.01	0.36	-0.28
-0.12	-0.66	-0.67	-0.64	-0.63	-0.73	-0.58	-0.33	-0.17	-0.69	-0.80	-0.58	-0.21	-0.86
101	390	740	1086	1426	1771	2124	2502	2865	3173	3499	3867	4247	4575
47	-12	-9	-10	-18	-20	-14	16	32	-7	-28	-8	25	6
0.67	-0.17	-0.13	-0.15	-0.25	-0.29	-0.20	0.24	0.48	-0.10	-0.41	-0.11	0.36	0.08
-0.44	-1.25	-1.18	-1.16	-1.23	-1.22	-1.10	-0.62	-0.36	-0.89	-1.16	-0.83	-0.32	-0.56
0.44	0.73	0.62	0.62	0.70	0.58	0.60	0.44	0.38	0.60	0.65	0.51	0.33	0.26

RF Input Power (dBm)

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

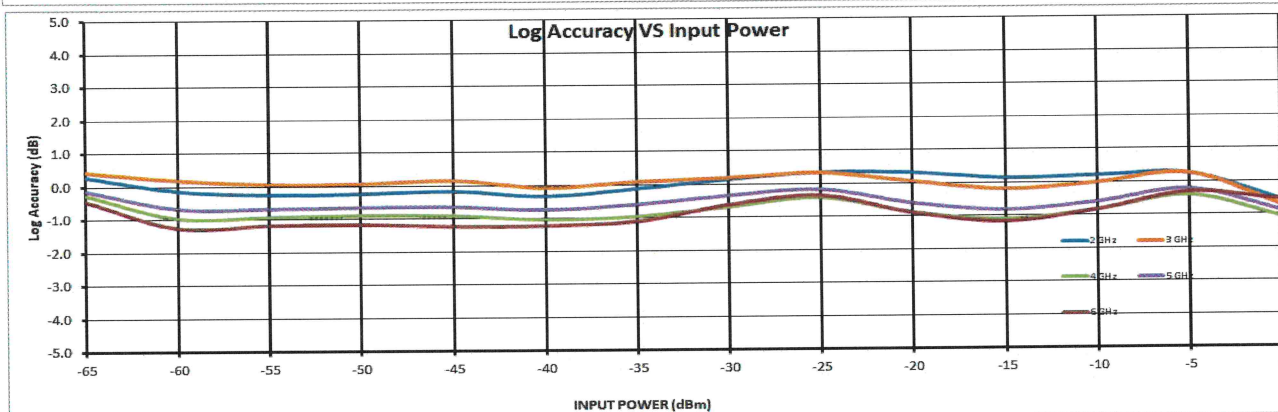
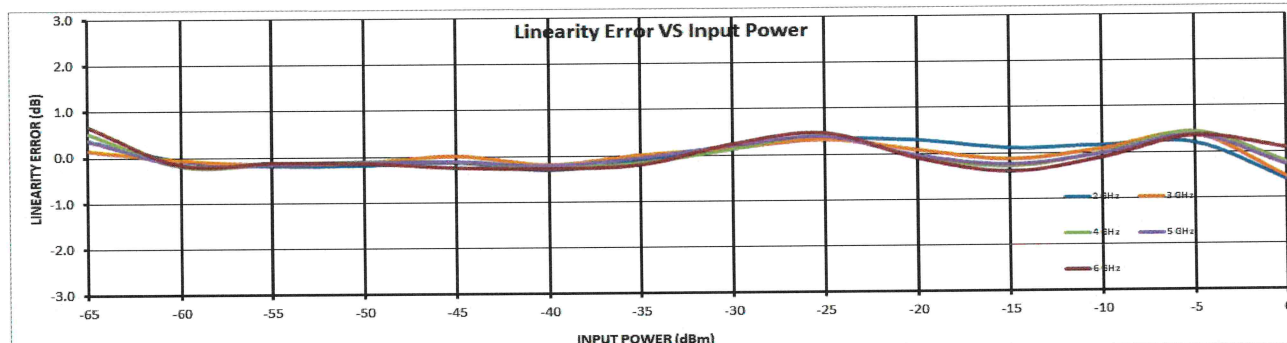
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

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)

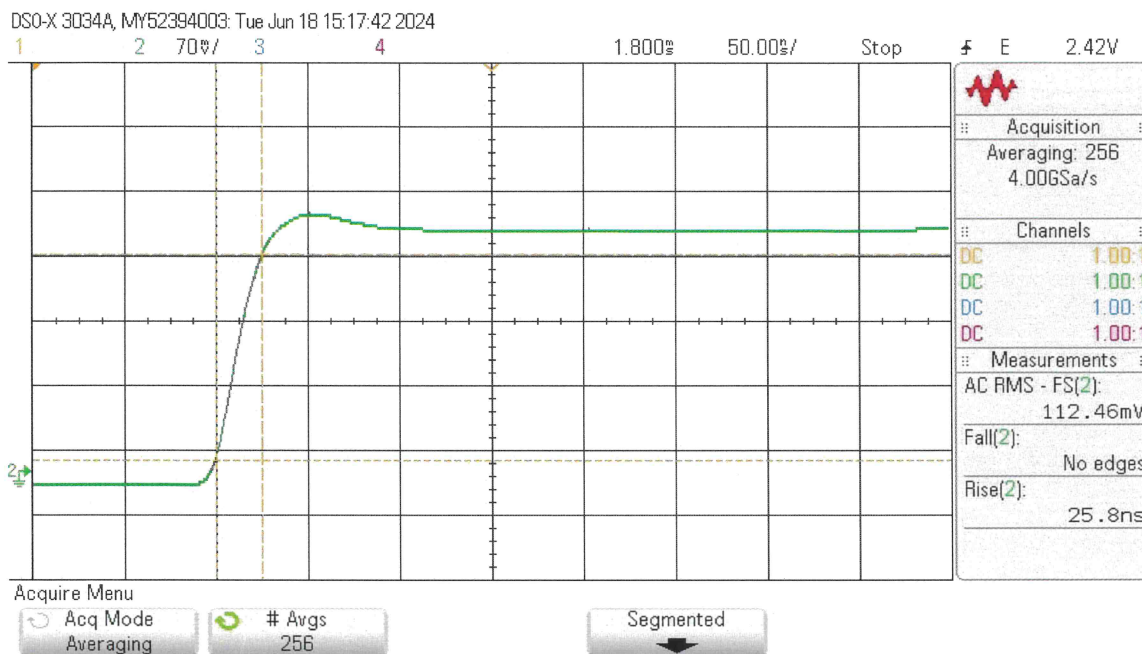
Flatness dB: ±0.73 dB



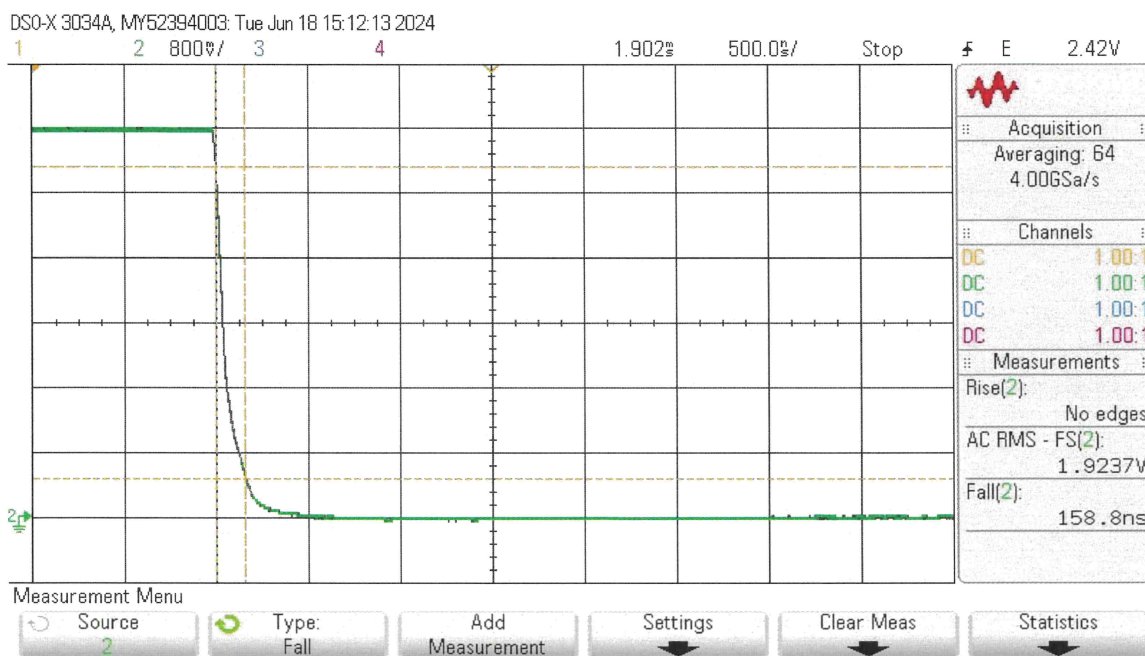


Summary Data
For
EWDM-2G6G-65-70MV-1

Rise Time



Fall and Recovery Time





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

Settling Time

