





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

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	+10.92 dB MAX +10.19 dB MIN	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	±0.4 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	+6.46 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-28 dBc	
17	SW Third Harmonic:	-12 dBc MIN	-48 dBc	
18	VIDEO OUT TSS:	-71 dBm MAX	-71.2 dBm	
19	VIDEO OUT Dynamic Range:	-65 to 0 dBm	-65 to 0 dBm	
20	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	71 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	±0.52 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	±1.05 dB	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	±1.26 dB	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	-32 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	148.4 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	0.387 us	



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

29	VIDEO OUT Video Frequency Flatness:	± 1.0 dB MAX	± 0.89 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	2.32 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	

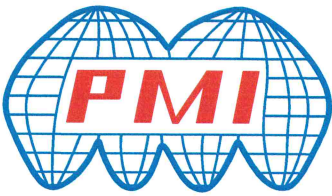


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For
EWDM-2G6G-65-70MV-1

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

QA/QC Approval: H. Kuter

Date: 6-27-24



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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42364
Date:: 05/30/2024
Tested By: J. Monley
Test Temp: +25°C
Input Port: RF Port

DC Offset: -20 mV



Frequency

2 GHz	INTERCEPT (mV)	4896
	SLOPE (mV/dB)	70
	MAX LIN ERROR	0.22
	MAX ACC ERROR	1.05

3 GHz	INTERCEPT (mV)	4851
	SLOPE (mV/dB)	69.4
	MAX LIN ERROR	0.45
	MAX ACC ERROR	0.88

4 GHz	INTERCEPT (mV)	4789
	SLOPE (mV/dB)	69.4
	MAX LIN ERROR	0.52
	MAX ACC ERROR	0.85

5 GHz	INTERCEPT (mV)	4803
	SLOPE (mV/dB)	70
	MAX LIN ERROR	0.39
	MAX ACC ERROR	0.71

6 GHz	INTERCEPT (mV)	4828
	SLOPE (mV/dB)	70.8
	MAX LIN ERROR	0.29
	MAX ACC ERROR	0.87

AVG. SLOPE: 69.9 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
338	694	1051	1396	1760	2093	2441	2797	3130	3498	3845	4201	4547	4893
-7	-1	6	1	15	-2	-4	2	-16	3	0	6	2	-2
-0.10	-0.02	0.08	0.01	0.21	-0.03	-0.06	0.02	-0.22	0.04	0.00	0.08	0.02	-0.03
0.72	0.81	0.92	0.85	1.05	0.81	0.79	0.88	0.64	0.90	0.86	0.95	0.90	0.85

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
330	689	1043	1388	1748	2078	2416	2757	3088	3450	3794	4158	4506	4882
-9	3	10	8	21	4	-5	-11	-27	-12	-16	1	2	31
-0.13	0.05	0.15	0.12	0.30	0.06	-0.06	-0.16	-0.39	-0.18	-0.22	0.02	0.03	0.45
0.61	0.74	0.80	0.73	0.88	0.60	0.43	0.31	0.04	0.22	0.14	0.34	0.32	0.69

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
272	627	973	1326	1681	2014	2357	2694	3034	3383	3726	4095	4443	4826
-3	4	3	9	17	3	-1	-12	-19	-17	-22	1	1	36
-0.05	0.06	0.05	0.13	0.24	0.04	-0.02	-0.17	-0.27	-0.24	-0.32	0.01	0.02	0.52
-0.22	-0.15	-0.20	-0.15	-0.08	-0.31	-0.41	-0.59	-0.73	-0.74	-0.85	-0.56	-0.59	-0.12

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
254	607	955	1309	1664	1999	2348	2697	3042	3393	3735	4106	4453	4831
1	4	2	6	11	-4	-5	-6	-11	-10	-18	3	0	28
0.02	0.06	0.03	0.09	0.16	-0.06	-0.07	-0.09	-0.16	-0.15	-0.26	0.04	0.00	0.39
-0.48	-0.43	-0.46	-0.39	-0.32	-0.53	-0.54	-0.55	-0.62	-0.60	-0.71	-0.40	-0.44	-0.04

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
237	587	929	1286	1635	1975	2338	2709	3061	3417	3750	4120	4470	4849
14	9	-3	0	-5	-20	-11	6	4	5	-16	0	-4	21
0.19	0.13	-0.04	0.00	-0.08	-0.28	-0.15	0.08	0.05	0.08	-0.22	0.00	-0.06	0.29
-0.72	-0.72	-0.83	-0.72	-0.73	-0.87	-0.68	-0.38	-0.35	-0.26	-0.49	-0.20	-0.20	0.22

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.72	0.76	0.87	0.79	0.89	0.84	0.74	0.74	0.69	0.82	0.86	0.76	0.74	0.49

RF Input Power (dBm)

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

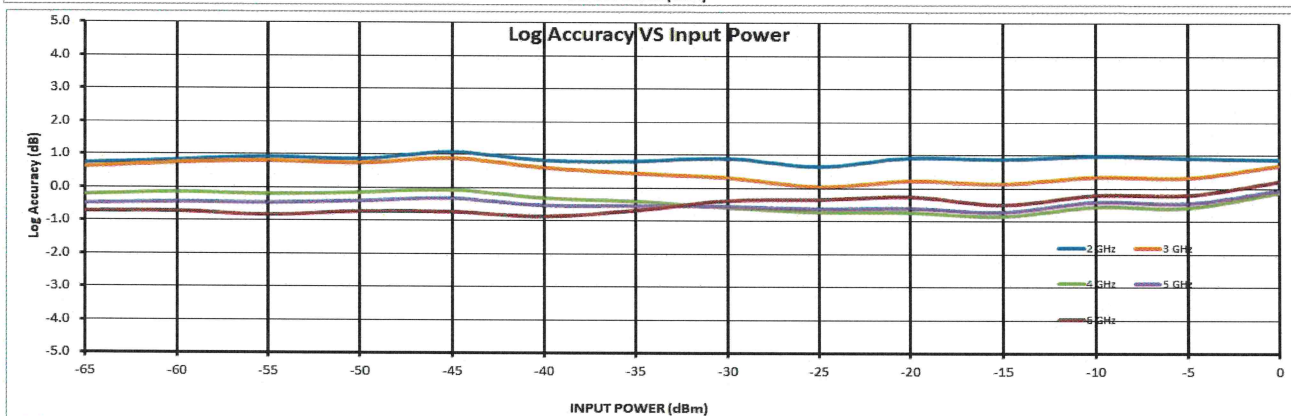
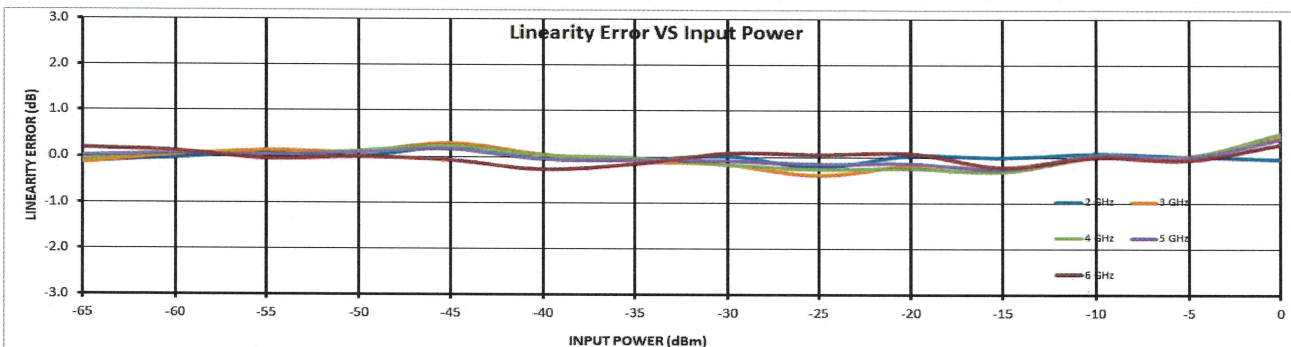
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Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

Flatness dB: ±0.89 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42364
Date: 05/30/2024
Tested By: J. Monley
Test Temp: +25°C
Input Port: BIT Port

DC Offset: -32 mV



Frequency

2 GHz	INTERCEPT (mV)	4876
	SLOPE (mV/dB)	70.5
	MAX LIN ERROR	0.16
	MAX ACC ERROR	1.01

3 GHz	INTERCEPT (mV)	4831
	SLOPE (mV/dB)	69.8
	MAX LIN ERROR	0.42
	MAX ACC ERROR	0.86

4 GHz	INTERCEPT (mV)	4768
	SLOPE (mV/dB)	69.7
	MAX LIN ERROR	0.49
	MAX ACC ERROR	0.79

5 GHz	INTERCEPT (mV)	4772
	SLOPE (mV/dB)	70.2
	MAX LIN ERROR	0.36
	MAX ACC ERROR	0.77

6 GHz	INTERCEPT (mV)	4800
	SLOPE (mV/dB)	71
	MAX LIN ERROR	0.28
	MAX ACC ERROR	0.87

AVG. SLOPE: 70.2 mV/dB

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
283	649	1004	1352	1714	2047	2398	2762	3106	3475	3820	4179	4524	4867	
-10	4	8	2	11	-8	-10	1	-7	9	2	8	1	-9	
-0.14	0.06	0.09	0.02	0.16	-0.12	-0.14	0.02	-0.10	0.13	0.02	0.12	0.01	-0.13	
0.54	0.75	0.81	0.76	0.91	0.65	0.65	0.83	0.73	0.98	0.89	1.01	0.92	0.80	
288	653	1006	1353	1710	2040	2381	2725	3066	3427	3770	4137	4484	4861	
-9	7	11	9	18	-1	-9	-14	-22	-9	-15	3	1	30	
-0.13	0.10	0.16	0.13	0.25	-0.02	-0.13	-0.20	-0.31	-0.13	-0.22	0.04	0.02	0.42	
0.61	0.81	0.83	0.77	0.86	0.55	0.41	0.31	0.16	0.30	0.18	0.41	0.35	0.71	
233	590	936	1294	1645	1979	2324	2683	3012	3368	3702	4072	4420	4802	
-3	5	3	12	14	0	-4	-13	-13	-16	-20	1	1	34	
-0.05	0.07	0.04	0.17	0.21	0.00	-0.06	-0.19	-0.19	-0.22	-0.29	0.02	0.01	0.49	
-0.17	-0.09	-0.16	-0.07	-0.07	-0.31	-0.40	-0.58	-0.61	-0.68	-0.79	-0.52	-0.56	-0.13	
211	563	910	1270	1621	1958	2308	2658	3011	3357	3703	4073	4421	4798	
3	4	0	9	9	-5	-7	-8	-6	-11	-16	3	0	26	
0.04	0.06	0.00	0.12	0.12	-0.08	-0.09	-0.11	-0.08	-0.16	-0.23	0.04	0.00	0.36	
-0.48	-0.47	-0.63	-0.41	-0.41	-0.61	-0.63	-0.65	-0.62	-0.70	-0.77	-0.60	-0.55	-0.18	
202	547	891	1252	1596	1940	2302	2673	3035	3386	3721	4091	4441	4819	
17	7	-4	2	-9	-20	-13	3	10	6	-14	1	-4	19	
0.24	0.10	-0.05	0.03	-0.13	-0.28	-0.18	0.04	0.14	0.08	-0.20	0.01	-0.08	0.26	
-0.61	-0.70	-0.80	-0.66	-0.77	-0.87	-0.72	-0.43	-0.28	-0.28	-0.51	-0.25	-0.26	0.12	
0.61	0.75	0.82	0.72	0.84	0.76	0.68	0.74	0.68	0.84	0.84	0.76	0.74	0.49	

RF Input Power (dBm)
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

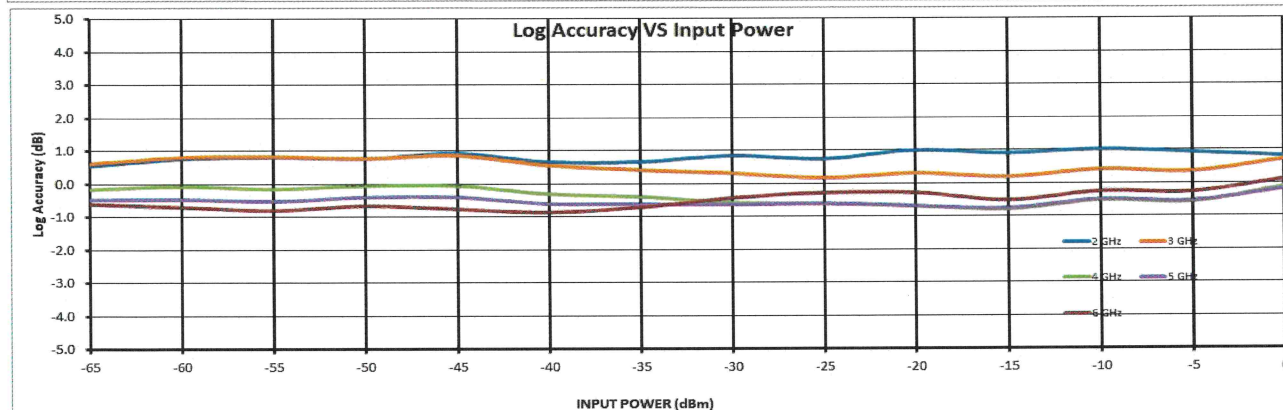
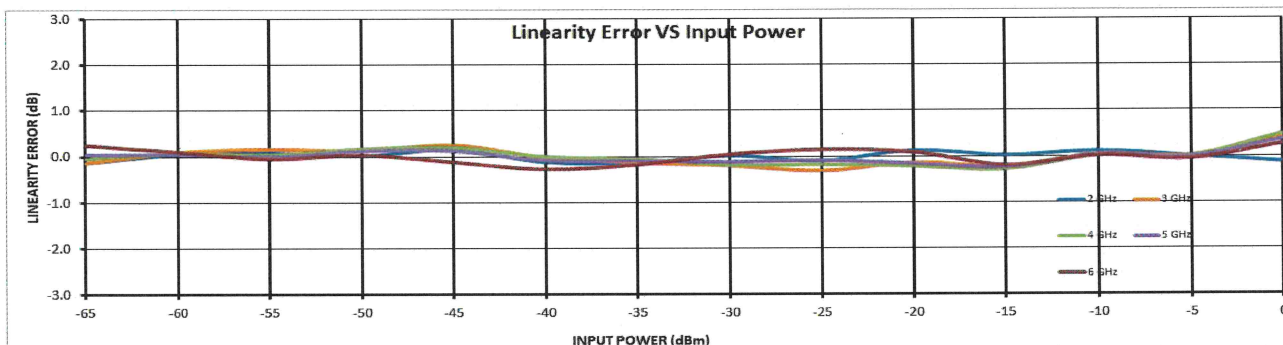
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

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: ±0.84 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42364
Date: 5/30/2024
Tested By: F. Cortes
Test Temp: 0°C
Input Port: RF Port

DC Offset: 32 mV



Frequency

2 GHz	INTERCEPT (mV)	4928
	SLOPE (mV/dB)	69.6
	MAX LIN ERROR	0.33
	MAX ACC ERROR	0.59

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
416	750	1097	1434	1804	2153	2507	2839	3166	3546	3901	4241	4586	4907
9	-5	-6	-17	6	7	13	-3	-23	9	16	8	6	-21
0.13	-0.07	-0.08	-0.24	0.08	0.10	0.19	-0.04	-0.33	0.13	0.23	0.12	0.08	-0.30
0.63	0.33	0.31	0.15	0.47	0.48	0.57	0.33	0.03	0.49	0.69	0.47	0.43	0.04

RF Input Power (dBm)

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

3 GHz	INTERCEPT (mV)	4873
	SLOPE (mV/dB)	68.4
	MAX LIN ERROR	0.58
	MAX ACC ERROR	0.7

428	762	1111	1450	1817	2157	2491	2798	3123	3493	3843	4194	4540	4887
1	-7	0	-3	22	20	12	-23	-40	-12	-4	5	9	14
0.02	-0.10	0.01	-0.04	0.33	0.30	0.18	-0.33	-0.58	-0.17	-0.05	0.08	0.14	0.21
0.70	0.50	0.51	0.38	0.66	0.54	0.34	-0.25	-0.59	-0.27	-0.24	-0.20	-0.23	-0.25

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

4 GHz	INTERCEPT (mV)	4842
	SLOPE (mV/dB)	68.8
	MAX LIN ERROR	0.46
	MAX ACC ERROR	1.05

376	712	1054	1393	1763	2101	2447	2765	3091	3455	3800	4162	4505	4855
6	-2	-4	-9	17	11	13	-13	-31	-11	-10	8	7	13
0.09	-0.02	-0.05	-0.13	0.25	0.17	0.19	-0.18	-0.45	-0.15	-0.14	0.12	0.11	0.19
-0.04	-0.22	-0.30	-0.44	-0.12	-0.27	-0.30	-0.73	-1.05	-0.82	-0.86	-0.66	-0.74	-0.71

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

5 GHz	INTERCEPT (mV)	4897
	SLOPE (mV/dB)	70.2
	MAX LIN ERROR	0.29
	MAX ACC ERROR	0.79

347	688	1025	1368	1739	2087	2456	2804	3135	3505	3852	4198	4541	4883
11	1	-13	-20	0	-3	15	12	-7	12	8	3	-5	-14
0.16	0.02	-0.18	-0.29	0.00	-0.04	0.22	0.18	-0.11	0.17	0.11	0.04	-0.07	-0.19
-0.46	-0.56	-0.72	-0.79	-0.47	-0.47	-0.17	-0.17	-0.41	-0.10	-0.11	-0.14	-0.22	-0.31

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

6 GHz	INTERCEPT (mV)	4933
	SLOPE (mV/dB)	71.2
	MAX LIN ERROR	0.39
	MAX ACC ERROR	1.11

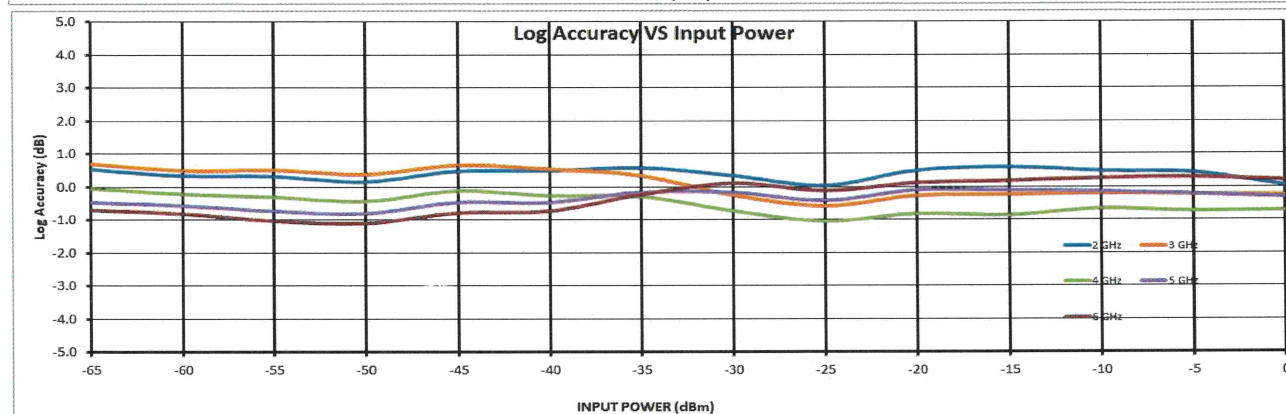
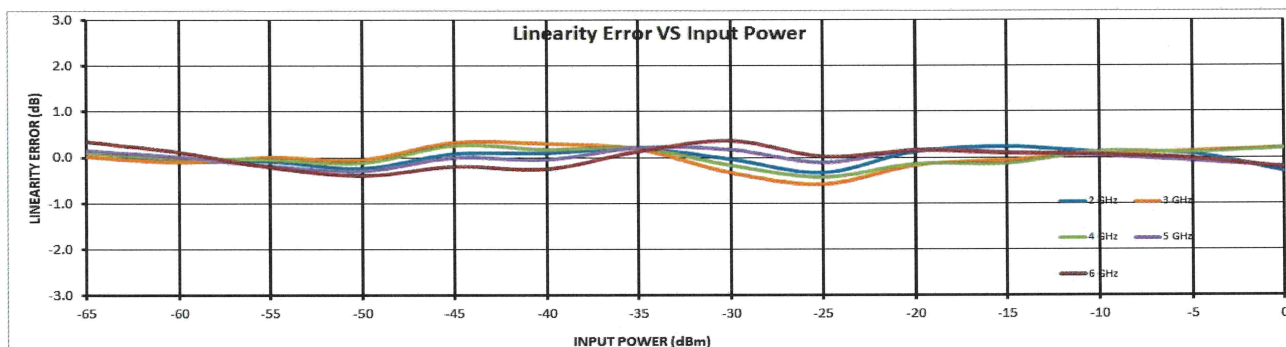
330	670	1003	1346	1716	2068	2451	2823	3155	3520	3872	4226	4576	4918
24	8	-15	-28	-14	-18	9	25	2	11	7	5	-1	-16
0.34	0.11	-0.21	-0.39	-0.19	-0.25	0.13	0.36	0.02	0.15	0.09	0.07	-0.02	-0.21
-0.70	-0.82	-1.04	-1.11	-0.80	-0.74	-0.24	0.11	-0.13	0.12	0.17	0.26	0.28	0.20

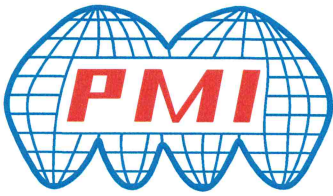
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

AVG. SLOPE: 69.6 mV/dB

0.70	0.66	0.78	0.75	0.73	0.64	0.43	0.53	0.54	0.65	0.73	0.57	0.58	0.45
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Flatness dB: ±0.78 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42364
Date: 06/30/2024
Tested By: J. Monley
Test Temp: +85°C
Input Port: RF Port

DC Offset: 1 mV



Frequency

2 GHz	INTERCEPT (mV)	4808
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.50
	MAX ACC ERROR	1.03

3 GHz	INTERCEPT (mV)	4776
	SLOPE (mV/dB)	69.6
	MAX LIN ERROR	0.41
	MAX ACC ERROR	1.12

4 GHz	INTERCEPT (mV)	4710
	SLOPE (mV/dB)	70
	MAX LIN ERROR	0.24
	MAX ACC ERROR	0.82

5 GHz	INTERCEPT (mV)	4731
	SLOPE (mV/dB)	70.3
	MAX LIN ERROR	0.24
	MAX ACC ERROR	0.66

6 GHz	INTERCEPT (mV)	4757
	SLOPE (mV/dB)	71.5
	MAX LIN ERROR	0.45
	MAX ACC ERROR	1.26

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
212	588	949	1303	1651	1987	2336	2711	3067	3423	3763	4120	4445	4773
-26	-2	8	10	6	-9	-12	12	16	21	9	15	-12	-35
-0.38	-0.03	0.11	0.14	0.09	-0.13	-0.17	0.17	0.23	0.29	0.13	0.21	-0.17	-0.60
0.37	0.72	0.85	0.89	0.83	0.61	0.58	0.91	0.97	1.03	0.87	0.95	0.57	0.23

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
230	614	968	1319	1664	1995	2333	2683	3035	3383	3721	4085	4428	4787
-29	8	14	18	15	-1	-11	-8	-4	-3	-13	4	-1	11
-0.41	0.11	0.21	0.26	0.22	-0.02	-0.15	-0.12	-0.05	-0.05	-0.19	0.05	-0.01	0.15
0.63	1.09	1.12	1.11	1.02	0.73	0.53	0.51	0.52	0.47	0.27	0.45	0.33	0.43

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
160	491	869	1225	1661	1906	2247	2603	2968	3305	3644	4009	4368	4725
3	-17	11	17	3	-2	-12	-6	9	-4	-15	-1	-2	15
0.04	-0.24	0.16	0.24	0.04	-0.03	-0.16	-0.08	0.13	-0.06	-0.22	-0.01	-0.02	0.22
-0.37	-0.66	-0.29	-0.22	-0.45	-0.54	-0.69	-0.63	-0.44	-0.64	-0.82	-0.63	-0.67	-0.45

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
163	498	877	1234	1670	1914	2258	2622	2989	3327	3666	4033	4378	4733
0	-17	11	17	1	-6	-14	-1	15	1	-11	4	-2	2
0.00	-0.24	0.16	0.24	0.02	-0.09	-0.19	-0.01	0.21	0.02	-0.16	0.06	-0.03	0.02
-0.33	-0.56	-0.17	-0.10	-0.32	-0.43	-0.53	-0.36	-0.14	-0.33	-0.51	-0.29	-0.38	-0.34

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
142	449	838	1191	1523	1875	2231	2624	3003	3345	3675	4043	4393	4761
29	-21	10	6	-19	-24	-26	10	32	17	-11	0	-7	4
0.41	-0.30	0.15	0.09	-0.27	-0.34	-0.36	0.14	0.45	0.23	-0.15	0.00	-0.10	0.05
-0.63	-1.26	-0.73	-0.71	-0.99	-0.98	-0.92	-0.33	0.06	-0.08	-0.38	-0.15	-0.17	0.06

AVG. SLOPE: 70.3 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.63	1.17	0.92	0.91	1.00	0.85	0.75	0.77	0.70	0.84	0.85	0.79	0.62	0.44

RF Input Power (dBm)

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

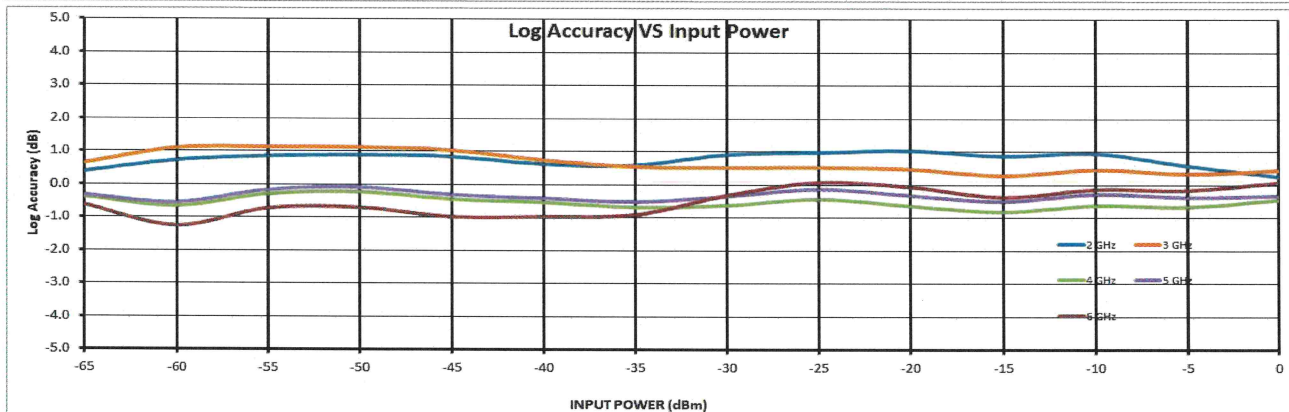
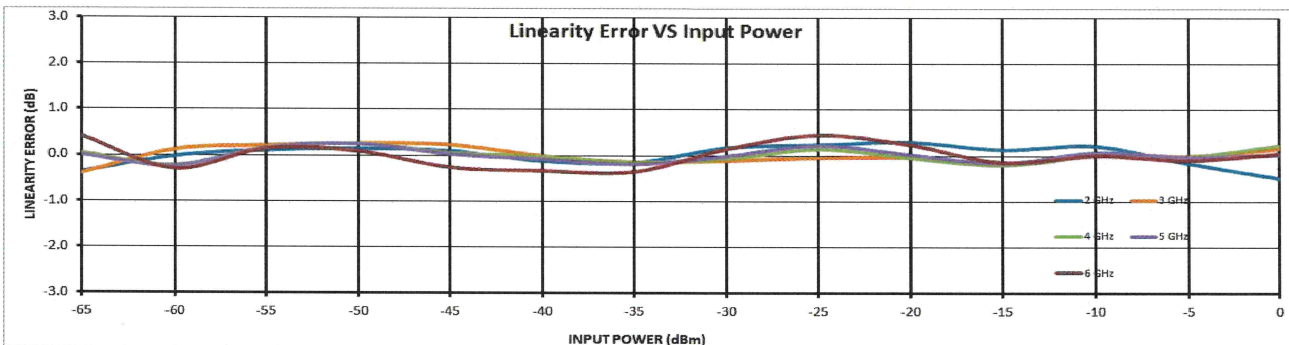
Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

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)	

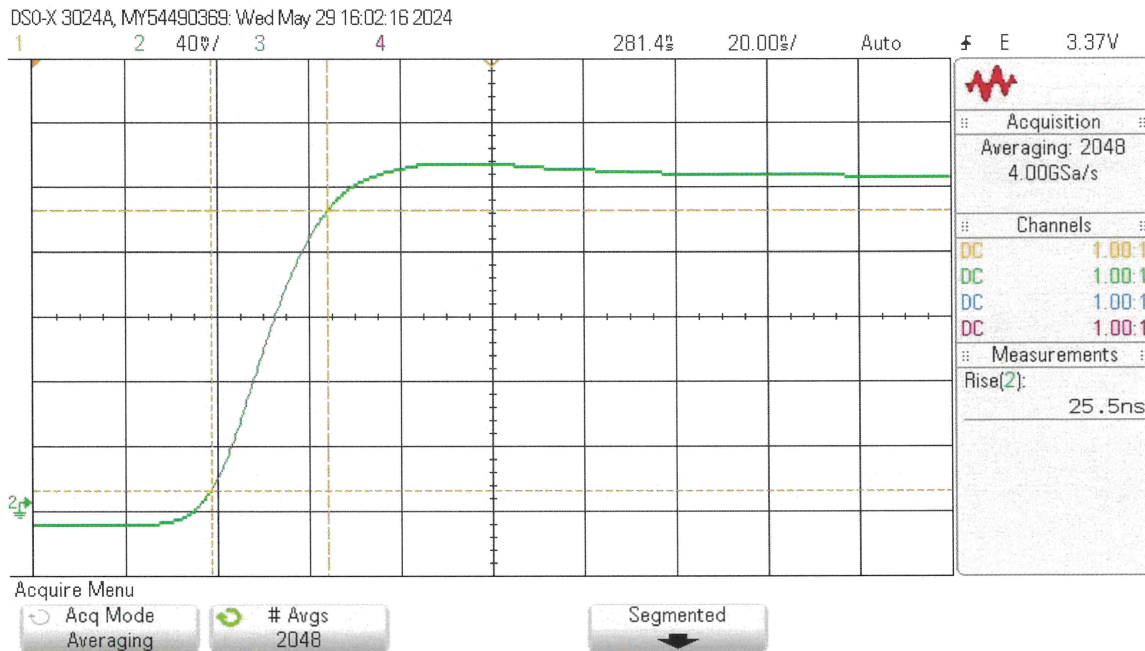
Flatness dB: ±1.17 dB



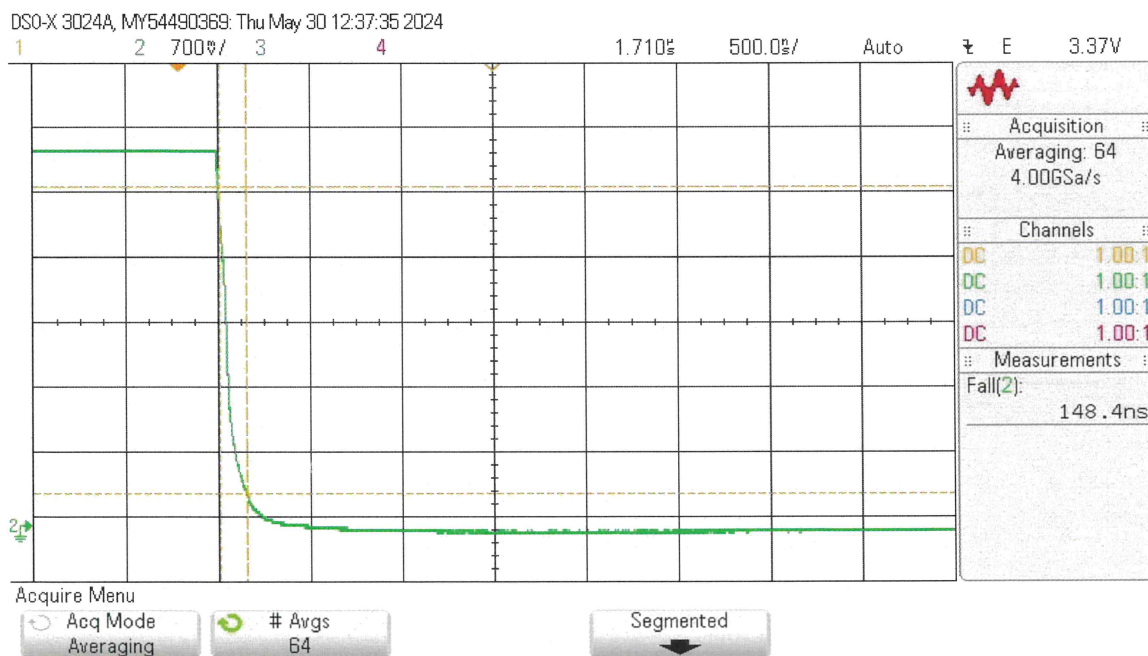


Summary Data
For
EWDM-2G6G-65-70MV-1

Rise Time



Fall and Recovery Time





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

Settling Time

