





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

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	+13.17 dB MAX +11.22 dB MIN	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	±1 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	+7.51 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-26 dBc	
17	SW Third Harmonic:	-12 dBc MIN	-46 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	70.9 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	±0.23 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	±1.04 dB	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	±1.3 dB	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	15 mV	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	24.8 ns	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	136.6 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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29	VIDEO OUT Video Frequency Flatness:	± 1.0 dB MAX	± 0.78 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	2.1 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	

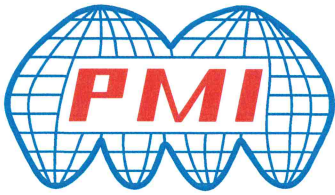


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36	Droop of the Output Video Pulse @ 300us & - 65 dBm	70mV (1 dB) MAX	< 70 mV	PMI QA3
37	VIDEO OUT Propagation Delay:	50 ns MAX Excluding cable	40 ns	
38	Power Supply	+15 V @ 1000 mA MAX -15 V @ 500 mA MAX	+15 V @ 627 mA -15 V @ 134 mA	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	PASS	

QA/QC Approval: H. Luter

Date: 6-28-24



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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42348
Date:: 06/27/2024
Tested By: J. Monley
Test Temp: +25°C
Input Port: RF Port

DC Offset: 15 mV



Frequency

2 GHz	INTERCEPT (mV)	4941
	SLOPE (mV/dB)	70.5
	MAX LIN ERROR	0.38
	MAX ACC ERROR	0.66

3 GHz	INTERCEPT (mV)	4965
	SLOPE (mV/dB)	70.9
	MAX LIN ERROR	0.16
	MAX ACC ERROR	0.58

4 GHz	INTERCEPT (mV)	4916
	SLOPE (mV/dB)	70.9
	MAX LIN ERROR	0.17
	MAX ACC ERROR	0.36

5 GHz	INTERCEPT (mV)	4905
	SLOPE (mV/dB)	70.8
	MAX LIN ERROR	0.2
	MAX ACC ERROR	0.54

6 GHz	INTERCEPT (mV)	4884
	SLOPE (mV/dB)	70.8
	MAX LIN ERROR	0.43
	MAX ACC ERROR	0.98

AVG. SLOPE: 70.8 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
362	712	1068	1414	1790	2122	2462	2809	3152	3532	3899	4262	4604	4918
2	0	3	-3	20	0	-12	-18	-27	1	15	25	16	-23
0.03	-0.01	0.05	-0.04	0.29	0.00	-0.17	-0.25	-0.38	0.01	0.22	0.37	0.22	-0.32
0.49	0.43	0.46	0.35	0.66	0.35	0.16	0.06	-0.10	0.27	0.46	0.59	0.42	-0.15

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
359	710	1066	1412	1784	2121	2475	2840	3180	3552	3903	4258	4609	4967
4	1	2	-7	11	-7	-7	3	-12	6	2	3	-1	2
0.06	0.01	0.03	-0.09	0.15	-0.10	-0.10	0.04	-0.16	0.08	0.03	0.04	-0.01	0.03
0.45	0.40	0.43	0.32	0.58	0.34	0.34	0.50	0.30	0.56	0.51	0.53	0.49	0.55

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
313	664	1014	1364	1733	2075	2439	2802	3146	3508	3843	4204	4551	4926
3	0	-4	-9	6	-6	3	12	1	9	-10	-4	-11	10
0.05	0.00	-0.06	-0.12	0.08	-0.09	0.04	0.17	0.02	0.13	-0.15	-0.05	-0.16	0.14
-0.20	-0.25	-0.30	-0.36	-0.14	-0.31	-0.17	-0.04	-0.18	-0.07	-0.33	-0.23	-0.33	-0.03

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
306	656	1004	1355	1726	2066	2429	2792	3132	3491	3828	4193	4546	4916
5	1	-5	-8	8	-6	3	12	-2	3	-14	-3	-4	11
0.07	0.01	-0.08	-0.12	0.12	-0.08	0.05	0.17	-0.03	0.04	-0.20	-0.05	-0.06	0.16
-0.30	-0.36	-0.44	-0.48	-0.24	-0.44	-0.31	-0.18	-0.38	-0.31	-0.64	-0.39	-0.40	-0.17

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
293	645	983	1336	1699	2041	2403	2763	3109	3465	3797	4170	4530	4914
13	11	-6	-7	2	-10	-2	4	-4	-2	-24	-5	0	30
0.18	0.16	-0.08	-0.09	0.03	-0.14	-0.03	0.06	-0.06	-0.03	-0.34	-0.08	0.01	0.43
-0.49	-0.51	-0.74	-0.75	-0.62	-0.79	-0.68	-0.59	-0.70	-0.67	-0.98	-0.71	-0.63	-0.20

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.49	0.47	0.60	0.55	0.64	0.57	0.51	0.54	0.50	0.61	0.75	0.65	0.56	0.37

RF Input Power (dBm)

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

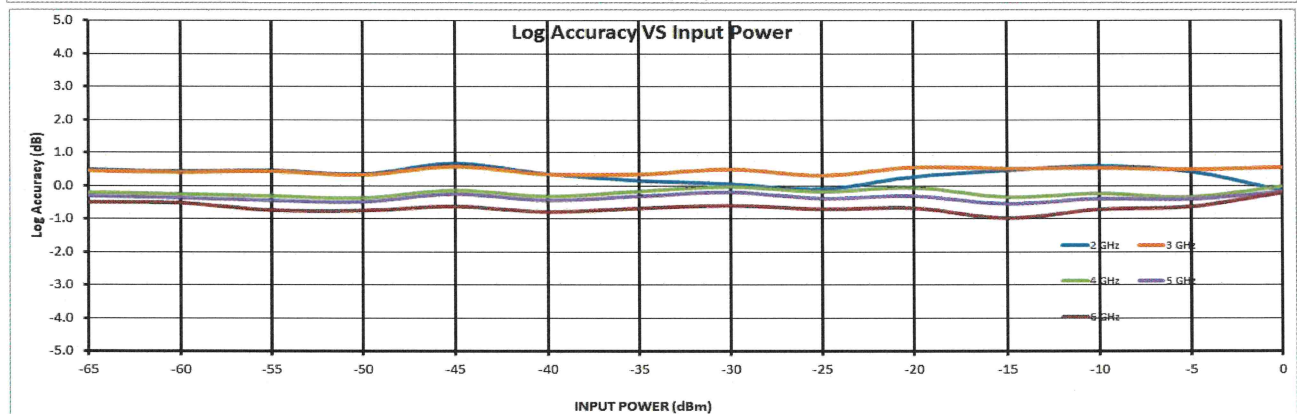
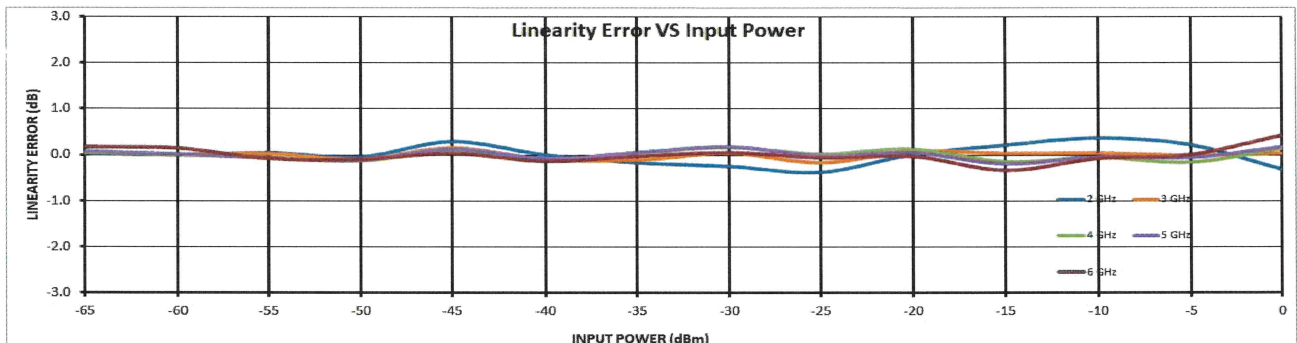
Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

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: ±0.75 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42348
Date: 06/27/2024
Tested By: J. Monley
Test Temp: +25°C
Input Port: BIT Port

DC Offset: 10 mV



Frequency

2 GHz	INTERCEPT (mV)	4938
	SLOPE (mV/dB)	70.7
	MAX LIN ERROR	0.38
	MAX ACC ERROR	0.56

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
345	703	1069	1404	1776	2108	2451	2801	3145	3523	3888	4253	4608	4920
0	5	7	-1	18	-4	-14	-17	-27	-2	10	21	23	-18
0.00	0.06	0.10	-0.02	0.25	-0.05	-0.20	-0.25	-0.38	-0.03	0.14	0.30	0.33	-0.26
0.37	0.42	0.44	0.31	0.56	0.25	0.09	0.03	-0.12	0.22	0.37	0.52	0.53	-0.06

RF Input Power (dBm)

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

3 GHz	INTERCEPT (mV)	4962
	SLOPE (mV/dB)	70.9
	MAX LIN ERROR	0.15
	MAX ACC ERROR	0.61

352	709	1065	1410	1779	2115	2472	2838	3178	3548	3898	4253	4607	4966
1	3	5	-5	9	-9	-7	4	-10	5	0	1	0	4
0.01	0.04	0.06	-0.07	0.13	-0.13	-0.10	0.06	-0.15	0.07	0.00	0.01	0.00	0.06
0.47	0.50	0.53	0.40	0.61	0.35	0.39	0.55	0.35	0.57	0.51	0.52	0.52	0.59

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

4 GHz	INTERCEPT (mV)	4919
	SLOPE (mV/dB)	70.9
	MAX LIN ERROR	0.23
	MAX ACC ERROR	0.28

308	667	1016	1366	1732	2072	2439	2805	3145	3507	3842	4202	4552	4936
0	4	-2	-7	5	-9	3	14	0	7	-13	-7	-12	16
0.00	0.06	-0.03	-0.10	0.08	-0.13	0.04	0.20	0.00	0.10	-0.18	-0.10	-0.17	0.23
-0.16	-0.09	-0.18	-0.24	-0.06	-0.26	-0.08	0.09	-0.12	-0.01	-0.28	-0.20	-0.26	0.15

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

5 GHz	INTERCEPT (mV)	4907
	SLOPE (mV/dB)	70.9
	MAX LIN ERROR	0.31
	MAX ACC ERROR	0.5

303	658	1006	1356	1725	2066	2428	2793	3131	3491	3826	4191	4547	4929
3	4	-3	-7	7	-6	2	12	-4	1	-18	-7	-6	22
0.04	0.05	-0.04	-0.10	0.11	-0.08	0.02	0.17	-0.06	0.02	-0.25	-0.11	-0.08	0.31
-0.23	-0.22	-0.30	-0.36	-0.16	-0.34	-0.23	-0.08	-0.31	-0.23	-0.60	-0.35	-0.33	0.06

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

6 GHz	INTERCEPT (mV)	4879
	SLOPE (mV/dB)	70.9
	MAX LIN ERROR	0.55
	MAX ACC ERROR	1.04

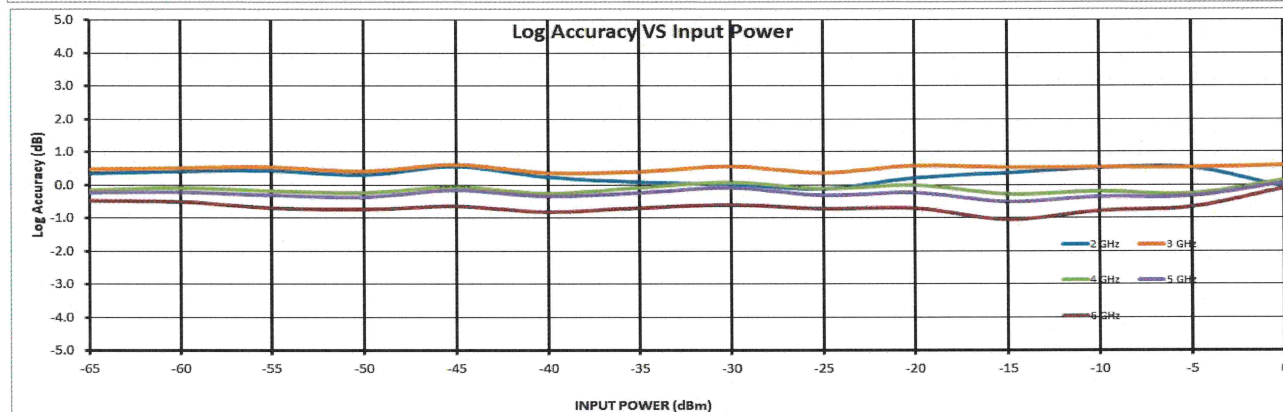
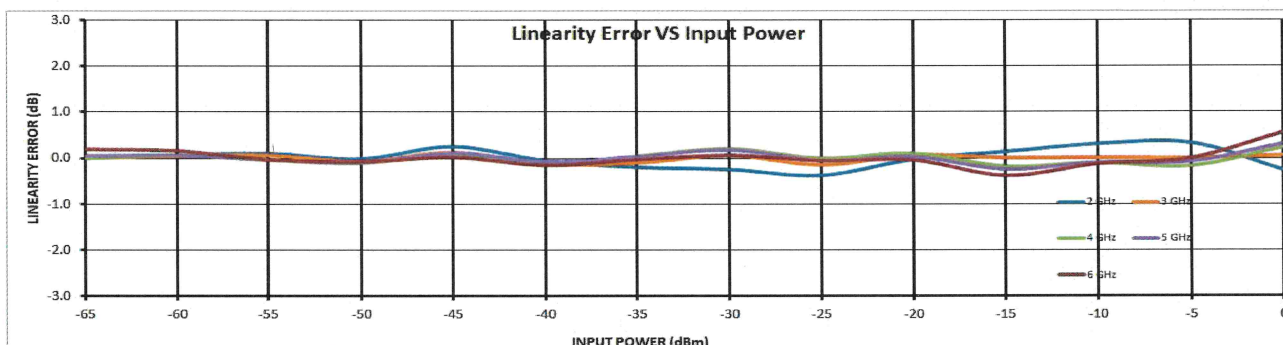
286	638	979	1330	1691	2033	2396	2757	3103	3458	3788	4161	4524	4918
13	11	-2	-6	1	-11	-3	4	-4	-4	-28	-9	-1	39
0.19	0.15	-0.03	-0.08	0.01	-0.16	-0.04	0.06	-0.06	-0.05	-0.39	-0.13	-0.01	0.55
-0.47	-0.50	-0.69	-0.73	-0.64	-0.81	-0.69	-0.59	-0.71	-0.70	-1.04	-0.78	-0.65	-0.09

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

AVG. SLOPE: 70.9 mV/dB

0.47	0.50	0.61	0.56	0.62	0.58	0.54	0.57	0.53	0.64	0.78	0.65	0.59	0.34
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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: PL42348
Date:: 06/27/24
Tested By: F. Cortes
Test Temp: 0°C
Input Port: RF Port

DC Offset: 20 mV



Frequency

2 GHz	INTERCEPT (mV)	4986
	SLOPE (mV/dB)	70.7
	MAX LIN ERROR	0.61
	MAX ACC ERROR	0.50

3 GHz	INTERCEPT (mV)	5008
	SLOPE (mV/dB)	71
	MAX LIN ERROR	0.26
	MAX ACC ERROR	0.52

4 GHz	INTERCEPT (mV)	4962
	SLOPE (mV/dB)	71
	MAX LIN ERROR	0.27
	MAX ACC ERROR	0.46

5 GHz	INTERCEPT (mV)	4950
	SLOPE (mV/dB)	71
	MAX LIN ERROR	0.26
	MAX ACC ERROR	0.62

6 GHz	INTERCEPT (mV)	4928
	SLOPE (mV/dB)	71
	MAX LIN ERROR	0.54
	MAX ACC ERROR	1.12

AVG. SLOPE: 70.9 mV/dB

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
405	738	1099	1447	1821	2160	2499	2840	3182	3567	3940	4303	4654	4972	
16	-5	2	-3	17	3	-12	-24	-36	-5	15	24	22	-14	
0.22	-0.07	0.03	-0.04	0.24	0.04	-0.17	-0.35	-0.51	-0.06	0.21	0.34	0.31	-0.20	
0.50	0.20	0.28	0.19	0.46	0.24	0.02	-0.17	-0.35	0.08	0.34	0.45	0.40	-0.12	
404	739	1100	1450	1825	2167	2520	2877	3214	3588	3946	4301	4653	5015	
13	-8	-2	-7	13	0	-2	-1	-19	0	3	3	0	7	
0.18	-0.11	-0.03	-0.10	0.18	0.00	-0.03	-0.01	-0.26	0.00	0.04	0.04	0.00	0.09	
0.49	0.21	0.30	0.23	0.52	0.34	0.32	0.35	0.10	0.37	0.42	0.43	0.39	0.49	
363	698	1050	1401	1781	2122	2478	2837	3177	3542	3885	4263	4600	4981	
15	-5	-8	-12	14	0	1	5	-10	0	-12	1	-7	19	
0.22	-0.07	-0.11	-0.16	0.19	-0.01	0.01	0.07	-0.14	0.00	-0.17	0.01	-0.10	0.27	
-0.09	-0.37	-0.41	-0.46	-0.10	-0.29	-0.27	-0.21	-0.42	-0.27	-0.44	-0.25	-0.36	0.01	
353	688	1040	1391	1769	2113	2471	2826	3166	3531	3872	4239	4591	4969	
15	-5	-8	-11	12	1	4	4	-10	0	-14	-2	-4	19	
0.21	-0.07	-0.11	-0.16	0.17	0.01	0.06	0.06	-0.15	0.00	-0.20	-0.02	-0.06	0.26	
-0.23	-0.51	-0.55	-0.60	-0.27	-0.42	-0.37	-0.37	-0.58	-0.43	-0.62	-0.45	-0.49	-0.16	
334	673	1018	1369	1745	2089	2441	2794	3137	3495	3837	4218	4577	4966	
20	4	-6	-10	11	0	-2	-4	-16	-13	-26	0	4	38	
0.28	0.06	-0.08	-0.14	0.16	0.01	-0.03	-0.06	-0.23	-0.19	-0.37	0.00	0.06	0.54	
-0.50	-0.72	-0.86	-0.91	-0.51	-0.76	-0.80	-0.82	-0.98	-0.94	-1.12	-0.74	-0.68	-0.20	
0.50	0.47	0.58	0.57	0.56	0.55	0.56	0.59	0.54	0.66	0.77	0.60	0.54	0.35	

RF Input Power (dBm)

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

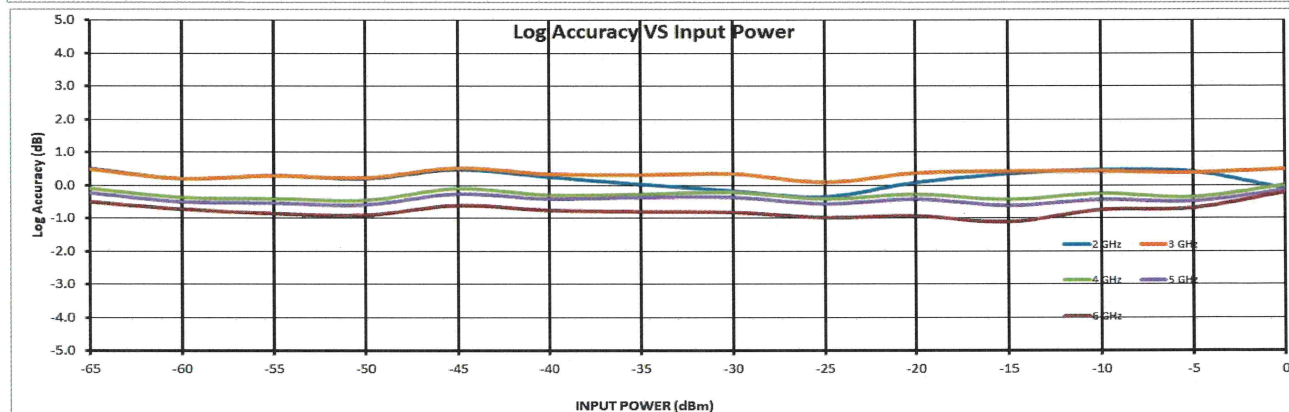
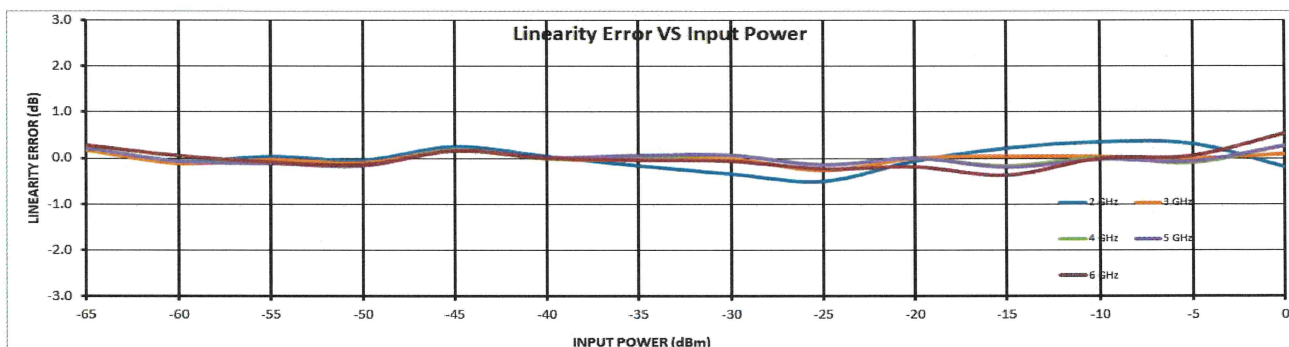
Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

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: ±0.77 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42348
Date:: 06/27/2024
Tested By: J. Monley
Test Temp: +85°C
Input Port: RF Port

DC Offset: 3 mV



Frequency

2 GHz	INTERCEPT (mV)	4690
	SLOPE (mV/dB)	68.1
	MAX LIN ERROR	0.67
	MAX ACC ERROR	0.69

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
243	599	936	1281	1637	1972	2319	2669	2998	3352	3690	4021	4327	4644
-23	-7	-10	-6	10	5	11	21	10	23	21	12	-23	-46
-0.33	-0.10	-0.15	-0.08	0.15	0.07	0.17	0.31	0.14	0.34	0.31	0.17	-0.33	-0.67
0.34	0.52	0.41	0.43	0.60	0.47	0.52	0.60	0.39	0.53	0.45	0.26	-0.30	-0.69

RF Input Power (dBm)

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

3 GHz	INTERCEPT (mV)	4745
	SLOPE (mV/dB)	68.6
	MAX LIN ERROR	0.44
	MAX ACC ERROR	1.3

265	628	964	1305	1662	1999	2357	2717	3042	3387	3721	4062	4386	4715
-20	0	-7	-9	5	-1	14	30	12	14	5	3	-16	-30
-0.29	0.00	-0.10	-0.13	0.07	-0.02	0.20	0.44	0.18	0.21	0.08	0.05	-0.23	-0.44
0.66	0.94	0.82	0.78	0.97	0.87	1.07	1.30	1.03	1.04	0.90	0.85	0.56	0.34

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

4 GHz	INTERCEPT (mV)	4890
	SLOPE (mV/dB)	69.2
	MAX LIN ERROR	0.61
	MAX ACC ERROR	0.59

192	526	867	1216	1562	1912	2280	2655	2988	3326	3646	3995	4321	4667
3	-10	-15	-12	-12	-8	14	42	29	21	-5	-2	-22	-23
0.04	-0.14	-0.21	-0.17	-0.17	-0.12	0.20	0.61	0.42	0.30	-0.07	-0.03	-0.32	-0.33
-0.40	-0.54	-0.59	-0.52	-0.49	-0.40	-0.05	0.40	0.24	0.15	-0.19	-0.12	-0.38	-0.35

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

5 GHz	INTERCEPT (mV)	4677
	SLOPE (mV/dB)	68.8
	MAX LIN ERROR	0.59
	MAX ACC ERROR	0.61

198	536	879	1227	1576	1922	2287	2653	2979	3314	3636	3986	4312	4658
-6	-12	-13	-9	-4	-2	19	41	23	14	-9	-3	-21	-19
-0.08	-0.17	-0.18	-0.13	-0.06	-0.03	0.27	0.59	0.33	0.20	-0.12	-0.04	-0.30	-0.27
-0.31	-0.40	-0.41	-0.36	-0.28	-0.25	0.06	0.37	0.11	-0.02	-0.34	-0.26	-0.61	-0.48

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

6 GHz	INTERCEPT (mV)	4657
	SLOPE (mV/dB)	69.2
	MAX LIN ERROR	0.48
	MAX ACC ERROR	1.04

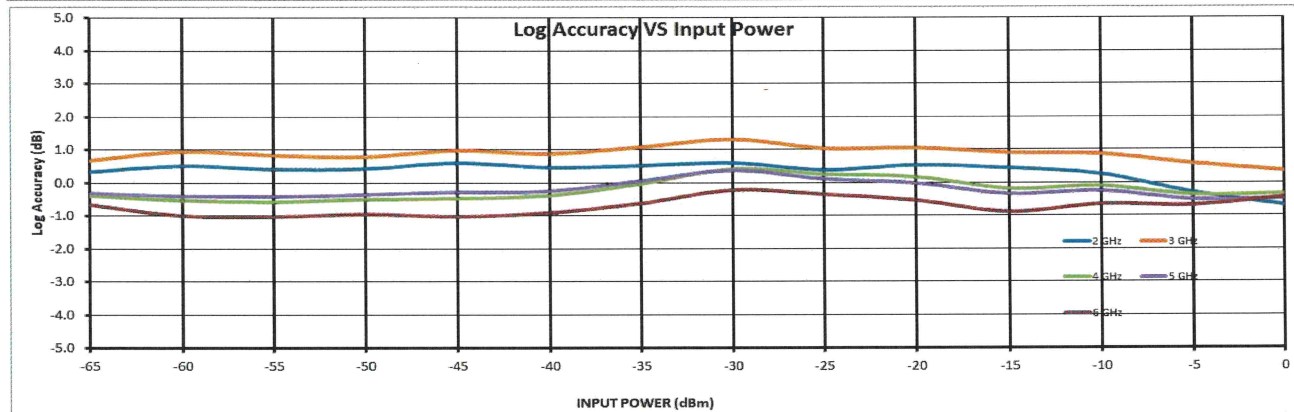
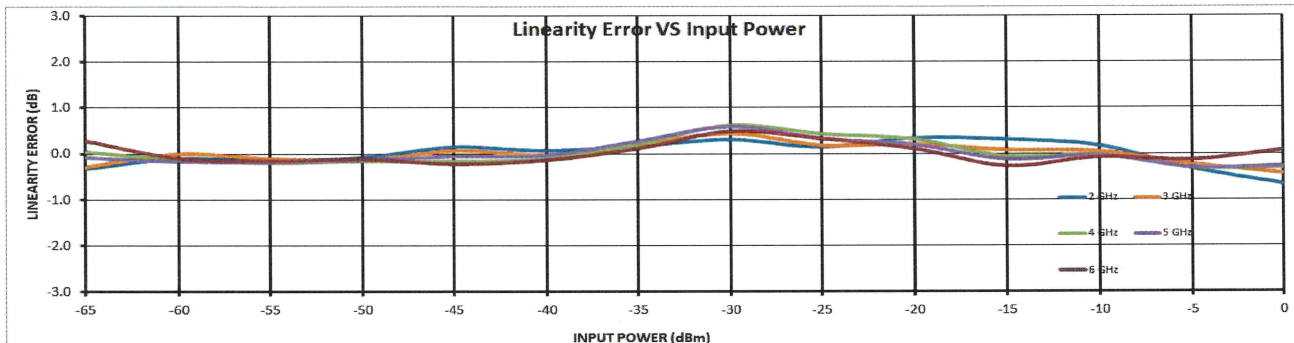
174	494	836	1185	1524	1876	2240	2612	2947	3278	3598	3958	4300	4661
19	-8	-12	-9	-16	-11	7	33	22	6	-20	-6	-10	4
0.27	-0.11	-0.17	-0.13	-0.24	-0.15	0.10	0.48	0.31	0.09	-0.29	-0.09	-0.15	0.08
-0.66	-1.01	-1.04	-0.97	-1.04	-0.92	-0.63	-0.22	-0.35	-0.54	-0.89	-0.66	-0.69	-0.44

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

AVG. SLOPE: 68.8 mV/dB

0.66	0.97	0.93	0.87	1.00	0.89	0.85	0.76	0.69	0.79	0.89	0.76	0.63	0.52
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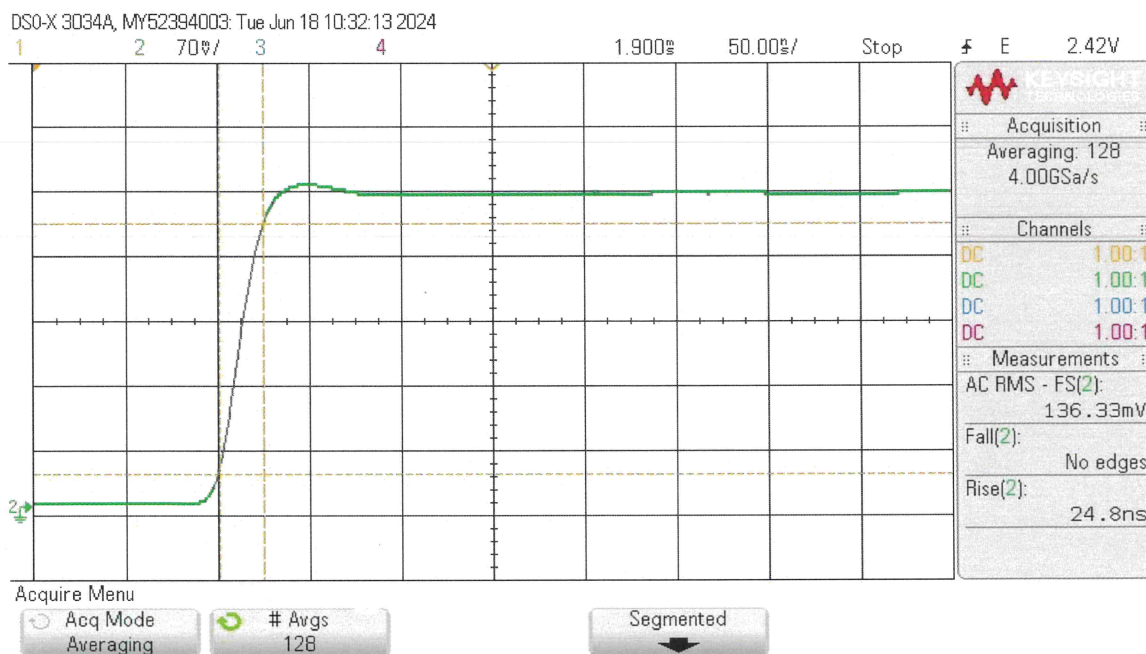
Flatness dB: ±1 dB



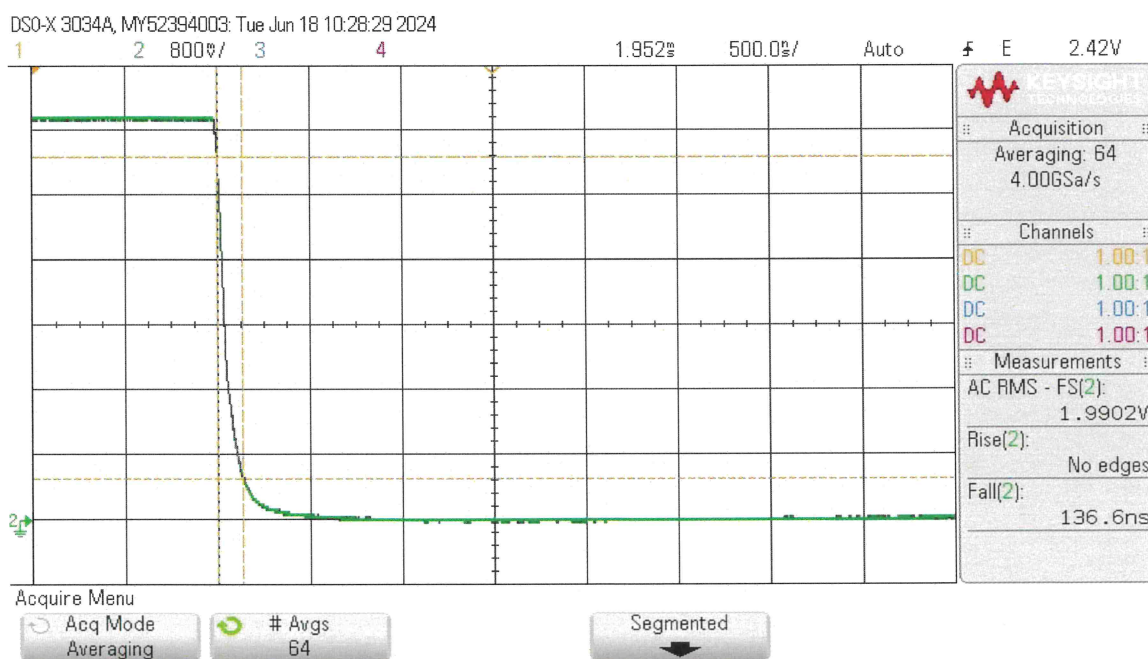


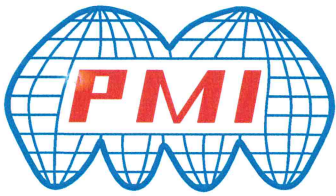
Summary Data
For
EWDM-2G6G-65-70MV-1

Rise Time



Fall and Recovery Time





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

Settling Time

