



Tested By: Joshua Monley

Temperature: 0°C TO +85°C

Date 7/29/2024

Drawing No: 27637945

Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 6 GHz	2 to 6 GHz	PMI QA3
2	VSWR:	2.0:1 MAX @ 50 Ω	1.2:1 @ 50 Ω (RF IN) 1.12:1 @ 50 Ω (BIT IN) 1.15:1 @ 50 Ω (RF OUT) 1.46:1 @ 50 Ω (SW OUT)	
3	Noise Figure:	6 dB MAX	4.5 dB	
4	Input Power:	(1) 1 W CW, Max. (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%, Max.	PASS	
5	TTL Control	See Logic Table	PASS	
6	SP3T Switch Isolation	60 dB MIN (All Ports)	> 60 dB	
7	SP3T Switching Speed:	100 ns MAX	50 ns	
8	RF OUT Linear Gain	+33 dB MIN, 39 dB MAX	+36.944 dB MAX +34.829 dB MIN	
9	RF OUT Frequency Flatness:	±2.0 dB MAX	±1.05 dB	
10	RF OUT 1 dB Compression Point:	+3 dBm MIN	+10.62 dBm	
11	RF OUT Second Harmonic:	-9 dBc MIN	-39 dBc	
12	RF OUT Third Harmonic:	-12 dBc MIN	-53 dBc	

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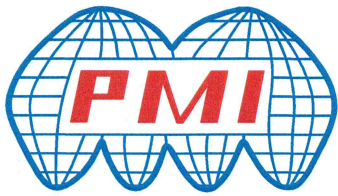
**Summary Data
For
EWDM-2G6G-65-70MV-1**

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	+13.428 dB MAX +11.396 dB MIN	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	±1 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	+7.39 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-25 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	68.7 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	±0.22 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	±0.9 dB	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	±1.2 dB	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	-12 mV	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	26 ns	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	149.1 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	0.456 us	



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

29	VIDEO OUT Video Frequency Flatness:	± 1.0 dB MAX	± 0.74 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	1.38 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 @ 631 mA -15 V @ 135 mA	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	PASS	

QA/QC Approval: K. Luter Date: 7.30.24



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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42368
Date: 07/29/2024
Tested By: F. Cortes
Test Temp: +25°C
Input Port: RF Port



DC Offset: -12 mV

Frequency

2 GHz	INTERCEPT (mV)	4796
	SLOPE (mV/dB)	68.7
	MAX LIN ERROR	0.48
	MAX ACC ERROR	0.90

3 GHz	INTERCEPT (mV)	4893
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.18
	MAX ACC ERROR	0.78

4 GHz	INTERCEPT (mV)	4878
	SLOPE (mV/dB)	70.7
	MAX LIN ERROR	0.21
	MAX ACC ERROR	0.57

5 GHz	INTERCEPT (mV)	4872
	SLOPE (mV/dB)	70.5
	MAX LIN ERROR	0.26
	MAX ACC ERROR	0.54

6 GHz	INTERCEPT (mV)	4843
	SLOPE (mV/dB)	70.6
	MAX LIN ERROR	0.52
	MAX ACC ERROR	0.64

AVG. SLOPE: 70.1 mV/dB

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
318	671	1026	1372	1732	2067	2398	2703	3049	3410	3757	4127	4478	4788	
-14	-4	7	10	28	18	6	-33	-30	-12	-9	18	25	-8	
-0.21	-0.07	0.10	0.14	0.38	0.26	0.08	-0.48	-0.44	-0.18	-0.13	0.26	0.37	-0.11	
0.34	0.38	0.44	0.38	0.51	0.29	0.01	-0.64	-0.71	-0.56	-0.61	-0.33	-0.32	-0.90	
328	685	1041	1387	1751	2092	2444	2787	3128	3493	3834	4191	4550	4892	
-8	-2	4	-1	13	3	5	-3	-12	2	-7	-1	8	-1	
-0.12	-0.02	0.05	-0.01	0.18	0.05	0.07	-0.04	-0.18	0.03	-0.10	-0.01	0.11	-0.01	
0.48	0.58	0.65	0.59	0.78	0.64	0.66	0.56	0.42	0.63	0.49	0.58	0.70	0.58	
285	636	986	1340	1702	2047	2412	2773	3115	3473	3803	4161	4513	4891	
0	-2	-5	-5	4	-4	7	15	4	8	-15	-10	-11	13	
0.01	-0.03	-0.07	-0.06	0.06	-0.06	0.11	0.21	0.05	0.12	-0.21	-0.14	-0.16	0.19	
-0.13	-0.12	-0.13	-0.08	0.08	0.00	0.21	0.36	0.24	0.34	0.05	0.15	0.17	0.57	
284	637	985	1340	1701	2051	2416	2771	3112	3467	3795	4152	4506	4889	
-3	-2	-8	-5	4	1	13	16	4	6	-18	-14	-13	17	
-0.04	-0.03	-0.08	-0.07	0.05	0.01	0.19	0.22	0.06	0.09	-0.26	-0.20	-0.18	0.25	
-0.14	-0.11	-0.13	-0.08	0.07	0.06	0.27	0.33	0.19	0.26	-0.07	0.03	0.07	0.54	
260	609	956	1312	1669	2019	2381	2737	3080	3428	3755	4123	4480	4880	
5	1	-5	-2	2	-1	8	11	1	-4	-29	-14	-10	37	
0.07	0.01	-0.07	-0.03	0.03	-0.01	0.12	0.16	0.02	-0.05	-0.42	-0.20	-0.15	0.52	
-0.48	-0.51	-0.56	-0.48	-0.39	-0.40	-0.23	-0.16	-0.26	-0.30	-0.64	-0.39	-0.30	0.41	
0.48	0.54	0.61	0.53	0.58	0.52	0.45	0.60	0.56	0.59	0.56	0.48	0.51	0.74	

RF Input Power (dBm)

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

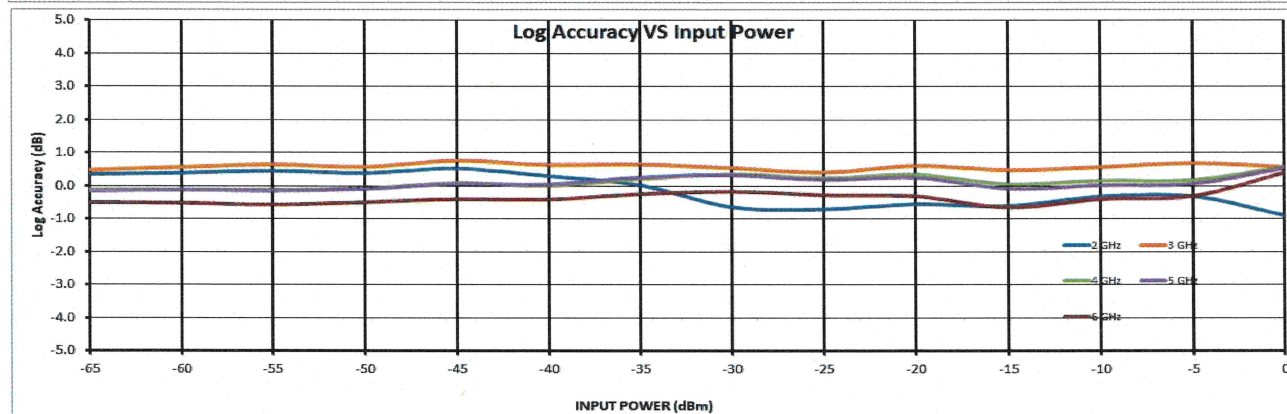
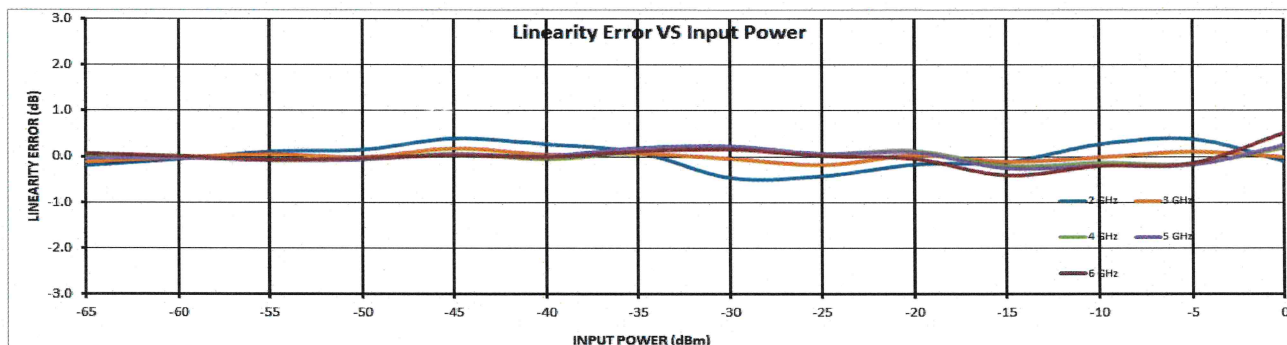
Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

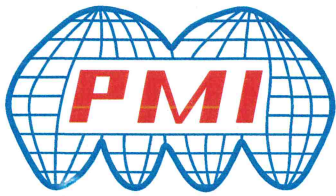
Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

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

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

Flatness dB: ±0.74 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42358
Date: 07/29/2024
Tested By: F. Cortes
Test Temp: +25°C
Input Port: BIT Port



DC Offset: -10 mV

Frequency

2 GHz	INTERCEPT (mV)	4796
	SLOPE (mV/dB)	68.7
	MAX LIN ERROR	0.49
	MAX ACC ERROR	0.87

3 GHz	INTERCEPT (mV)	4889
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.18
	MAX ACC ERROR	0.72

4 GHz	INTERCEPT (mV)	4873
	SLOPE (mV/dB)	70.6
	MAX LIN ERROR	0.22
	MAX ACC ERROR	0.48

5 GHz	INTERCEPT (mV)	4870
	SLOPE (mV/dB)	70.5
	MAX LIN ERROR	0.27
	MAX ACC ERROR	0.53

6 GHz	INTERCEPT (mV)	4844
	SLOPE (mV/dB)	70.6
	MAX LIN ERROR	0.52
	MAX ACC ERROR	0.62

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
318	670	1026	1372	1732	2067	2398	2702	3048	3409	3756	4127	4480	4790
-13	-5	8	10	27	18	6	-34	-31	-14	-10	17	27	-6
-0.20	-0.07	0.11	0.15	0.39	0.27	0.08	-0.49	-0.45	-0.20	-0.15	0.25	0.39	-0.09
0.34	0.36	0.44	0.38	0.51	0.29	0.01	-0.65	-0.72	-0.57	-0.62	-0.33	-0.29	-0.87

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
326	680	1038	1383	1747	2088	2440	2783	3125	3490	3830	4187	4546	4890
-6	-3	5	-1	12	3	4	-3	-12	3	-8	-1	7	1
-0.09	-0.04	0.06	-0.01	0.18	0.04	0.06	-0.05	-0.17	0.04	-0.11	-0.02	0.10	0.01
0.46	0.51	0.61	0.53	0.72	0.59	0.61	0.50	0.38	0.59	0.43	0.53	0.65	0.55

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
284	633	983	1337	1700	2043	2409	2770	3113	3470	3799	4168	4508	4885
1	-3	-6	-5	5	-5	8	15	5	9	-15	-9	-12	12
0.02	-0.04	-0.08	-0.07	0.07	-0.08	0.11	0.22	0.08	0.13	-0.21	-0.13	-0.17	0.17
-0.14	-0.16	-0.17	-0.12	0.05	-0.05	0.17	0.32	0.21	0.30	-0.01	0.11	0.11	0.48

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
283	634	985	1338	1699	2049	2414	2769	3110	3465	3793	4151	4504	4888
-2	-3	-6	-5	3	1	13	16	4	6	-19	-13	-13	18
-0.02	-0.05	-0.07	-0.07	0.05	0.01	0.19	0.22	0.05	0.08	-0.27	-0.19	-0.19	0.26
-0.16	-0.15	-0.14	-0.11	0.04	0.03	0.24	0.30	0.17	0.23	-0.09	0.01	0.05	0.53

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
262	608	956	1312	1670	2019	2381	2737	3080	3429	3756	4123	4481	4880
6	0	-6	-2	3	-1	8	11	1	-3	-29	-15	-10	38
0.09	-0.01	-0.08	-0.03	0.04	-0.02	0.11	0.16	0.01	-0.04	-0.41	-0.21	-0.14	0.52
-0.46	-0.52	-0.56	-0.48	-0.37	-0.40	-0.23	-0.15	-0.26	-0.28	-0.62	-0.39	-0.28	0.41

AVG. SLOPE: 70.1 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.46	0.51	0.58	0.51	0.55	0.49	0.42	0.58	0.55	0.58	0.53	0.46	0.47	0.71

RF Input Power (dBm)

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

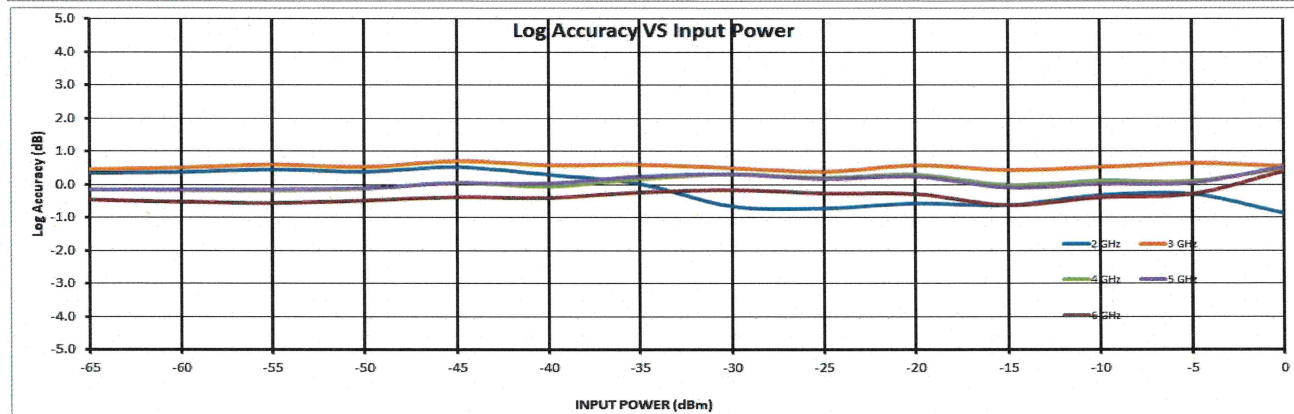
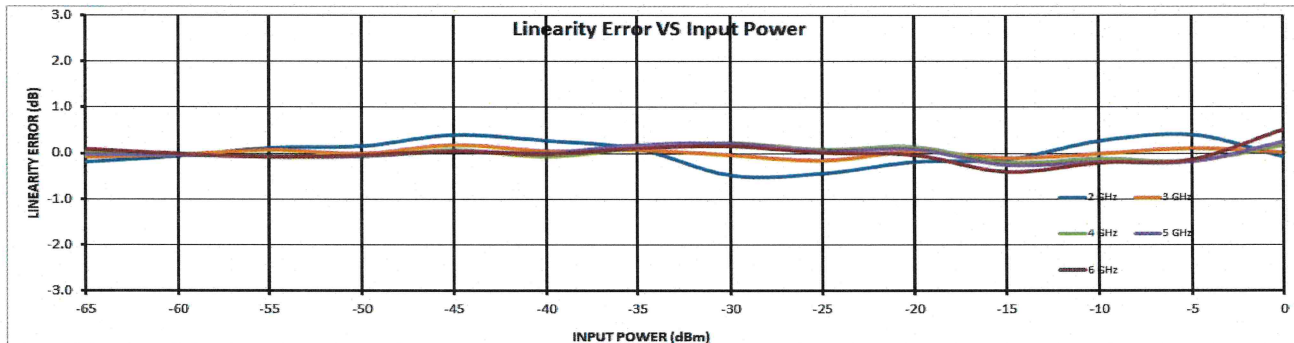
Measured Value (mV)	
ERROR (mV)	
LINEARITY ERROR (dB)	
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Measured Value (mV)	
Error (mV)	
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

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: PL42358
Date: 07/29/2024
Tested By: J. Monley
Test Temp: 0°C
Input Port: RF Port

DC Offset: 1 mV



Frequency

2 GHz	INTERCEPT (mV)	4862
	SLOPE (mV/dB)	69.5
	MAX LIN ERROR	0.60
	MAX ACC ERROR	0.64

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
329	686	1047	1394	1763	2096	2426	2740	3092	3454	3803	4175	4541	4871
-12	-3	11	10	31	16	-1	-35	-31	-17	-15	9	27	9
-0.17	-0.04	0.15	0.14	0.45	0.24	-0.02	-0.50	-0.44	-0.24	-0.22	0.13	0.39	0.14
0.24	0.29	0.41	0.32	0.54	0.26	-0.07	-0.63	-0.64	-0.52	-0.58	-0.31	-0.13	-0.46

RF Input Power (dBm)

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

3 GHz	INTERCEPT (mV)	4944
	SLOPE (mV/dB)	70.8
	MAX LIN ERROR	0.15
	MAX ACC ERROR	0.63

339	695	1054	1400	1769	2110	2465	2820	3167	3535	3878	4233	4591	4948
-3	-1	4	-4	11	-2	-1	0	-7	7	-4	-3	1	4
-0.04	-0.01	0.06	-0.06	0.15	-0.03	-0.02	0.00	-0.10	0.10	-0.06	-0.05	0.01	0.05
0.38	0.42	0.50	0.40	0.63	0.45	0.48	0.51	0.42	0.63	0.48	0.51	0.58	0.63

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

4 GHz	INTERCEPT (mV)	4918
	SLOPE (mV/dB)	71
	MAX LIN ERROR	0.24
	MAX ACC ERROR	0.35

300	655	1007	1360	1727	2073	2442	2805	3151	3512	3841	4196	4546	4928
-2	-2	-5	-7	4	-5	9	17	8	14	-12	-12	-17	10
-0.03	-0.03	-0.08	-0.11	0.06	-0.06	0.13	0.24	0.12	0.20	-0.17	-0.17	-0.24	0.14
-0.17	-0.14	-0.16	-0.16	0.03	-0.07	0.15	0.29	0.19	0.30	-0.04	-0.01	-0.06	0.35

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

5 GHz	INTERCEPT (mV)	4915
	SLOPE (mV/dB)	71
	MAX LIN ERROR	0.3
	MAX ACC ERROR	0.46

297	650	1002	1356	1722	2069	2438	2801	3143	3503	3832	4190	4542	4936
0	-2	-5	-5	4	-4	10	18	4	9	-17	-14	-18	21
0.00	-0.03	-0.07	-0.09	0.06	-0.06	0.14	0.25	0.06	0.13	-0.24	-0.20	-0.25	0.30
-0.21	-0.21	-0.23	-0.22	-0.04	-0.13	0.10	0.24	0.08	0.18	-0.17	-0.10	-0.12	0.46

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

6 GHz	INTERCEPT (mV)	4880
	SLOPE (mV/dB)	70.8
	MAX LIN ERROR	0.52
	MAX ACC ERROR	0.75

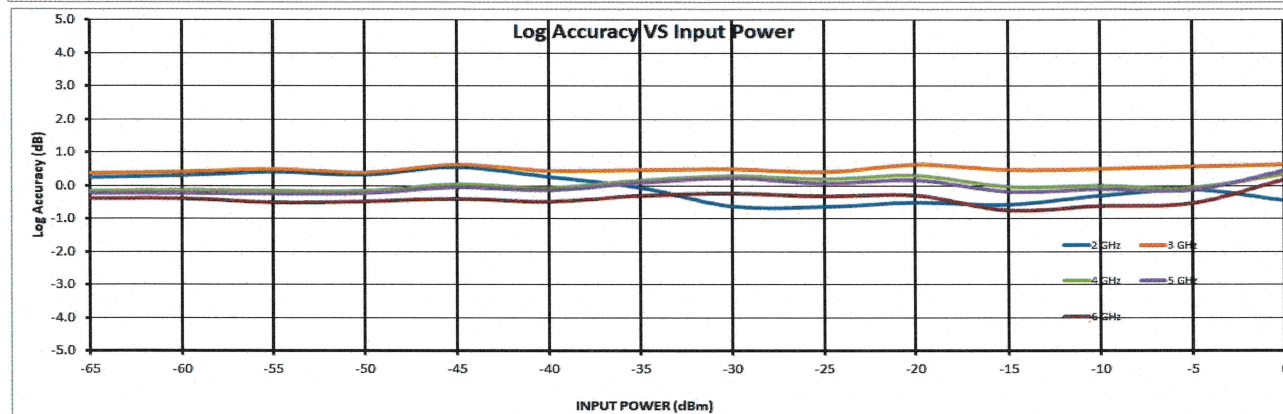
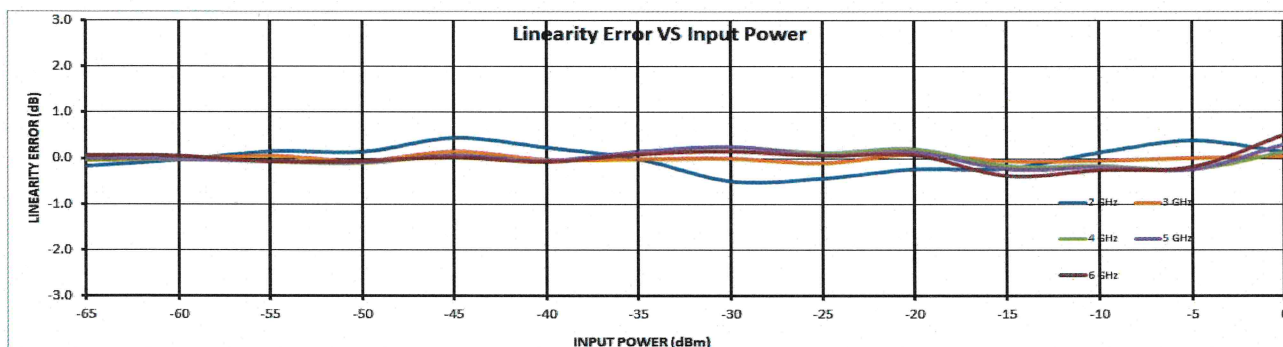
285	638	983	1338	1697	2044	2410	2768	3115	3470	3791	4154	4513	4917
5	4	-6	-4	1	-5	7	11	4	5	-28	-18	-13	37
0.07	0.05	-0.07	-0.05	0.02	-0.08	0.09	0.15	0.06	0.07	-0.39	-0.26	-0.19	0.52
-0.38	-0.38	-0.50	-0.47	-0.39	-0.48	-0.30	-0.23	-0.32	-0.29	-0.75	-0.61	-0.53	0.19

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

AVG. SLOPE: 70.6 mV/dB

0.38	0.40	0.50	0.44	0.51	0.47	0.39	0.57	0.53	0.57	0.62	0.56	0.55	0.55
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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: PL42358
Date: 07/29/2024
Tested By: J. Monley
Test Temp: +85°C
Input Port: RF Port



DC Offset: 4 mV

Frequency

2 GHz	INTERCEPT (mV)	4674
	SLOPE (mV/dB)	67.8
	MAX LIN ERROR	0.43
	MAX ACC ERROR	1.20

3 GHz	INTERCEPT (mV)	4777
	SLOPE (mV/dB)	69.1
	MAX LIN ERROR	0.38
	MAX ACC ERROR	1.01

4 GHz	INTERCEPT (mV)	4766
	SLOPE (mV/dB)	70
	MAX LIN ERROR	0.52
	MAX ACC ERROR	0.62

5 GHz	INTERCEPT (mV)	4749
	SLOPE (mV/dB)	69.7
	MAX LIN ERROR	0.53
	MAX ACC ERROR	0.66

6 GHz	INTERCEPT (mV)	4715
	SLOPE (mV/dB)	69.9
	MAX LIN ERROR	0.47
	MAX ACC ERROR	0.91

AVG. SLOPE: 69.3 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
239	597	946	1298	1643	1979	2315	2634	2975	3315	3655	4016	4338	4645
-29	-10	0	13	19	16	13	-7	-5	-3	-2	20	3	-29
-0.43	-0.14	0.00	0.20	0.28	0.24	0.20	-0.10	-0.07	-0.05	-0.04	0.29	0.04	-0.43
0.24	0.40	0.44	0.51	0.49	0.34	0.19	-0.21	-0.29	-0.39	-0.48	-0.28	-0.63	-1.20

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
263	628	974	1323	1670	2011	2367	2719	3065	3404	3733	4088	4435	4750
-20	-1	-1	3	4	-1	10	16	7	10	-7	3	4	-27
-0.30	-0.02	-0.01	0.04	0.06	-0.01	0.14	0.23	0.10	0.14	-0.10	0.04	0.06	-0.38
0.58	0.85	0.84	0.88	0.88	0.80	0.94	1.01	0.86	0.90	0.64	0.76	0.77	0.31

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
204	546	895	1254	1593	1946	2318	2692	3033	3374	3691	4043	4392	4748
-1	-9	-10	-1	-12	-9	12	36	27	18	-15	-13	-14	-8
-0.01	-0.13	-0.14	-0.02	-0.18	-0.13	0.18	0.52	0.39	0.26	-0.22	-0.19	-0.21	-0.12
-0.27	-0.33	-0.30	-0.12	-0.23	-0.14	0.23	0.62	0.54	0.46	0.04	0.11	0.15	0.28

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
209	552	906	1264	1604	1955	2325	2694	3030	3367	3685	4039	4386	4741
-7	-13	-8	2	-7	-5	17	37	24	13	-18	-13	-14	-8
-0.10	-0.19	-0.11	0.02	-0.10	-0.07	0.24	0.53	0.35	0.18	-0.26	-0.18	-0.21	-0.11
-0.19	-0.25	-0.14	0.02	-0.07	-0.01	0.33	0.65	0.50	0.36	-0.05	0.06	0.06	0.18

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
182	506	862	1222	1551	1907	2275	2650	2994	3325	3638	3996	4353	4732
12	-13	-7	3	-17	-11	7	33	27	9	-28	-20	-12	17
0.18	-0.19	-0.10	0.05	-0.25	-0.16	0.11	0.47	0.39	0.12	-0.40	-0.28	-0.18	0.24
-0.58	-0.91	-0.77	-0.58	-0.84	-0.70	-0.39	0.02	-0.02	-0.24	-0.73	-0.56	-0.41	0.05

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.58	0.88	0.81	0.73	0.86	0.75	0.66	0.61	0.58	0.64	0.69	0.66	0.70	0.76

RF Input Power (dBm)

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

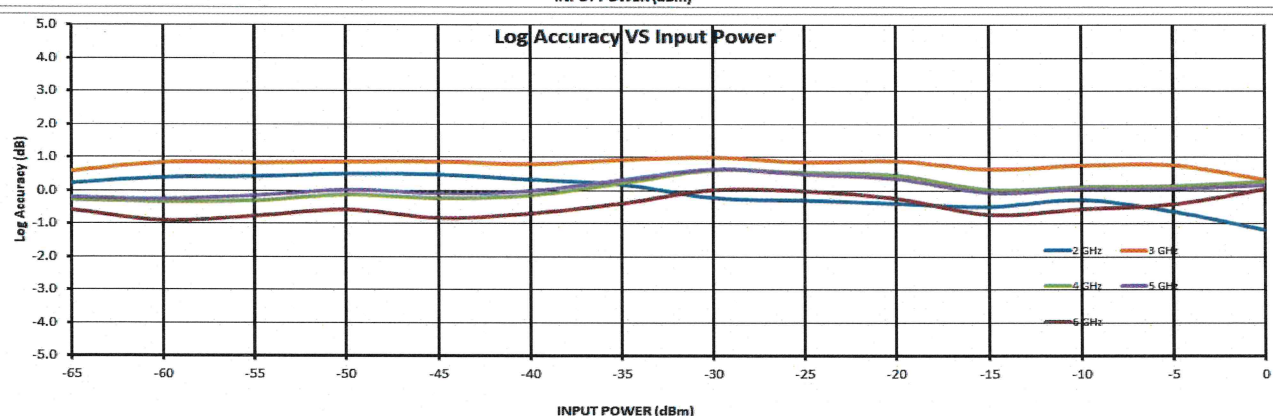
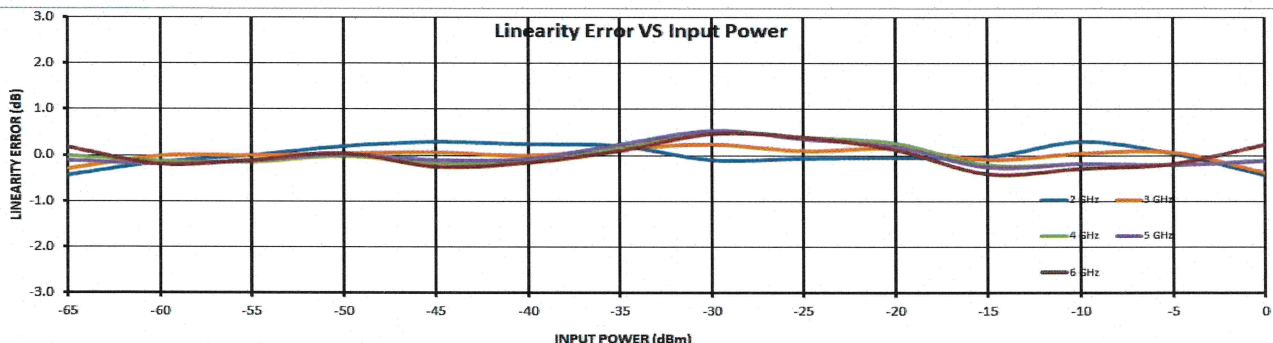
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

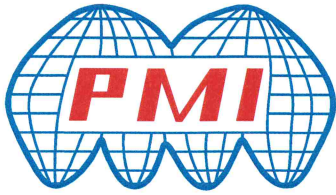
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

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

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

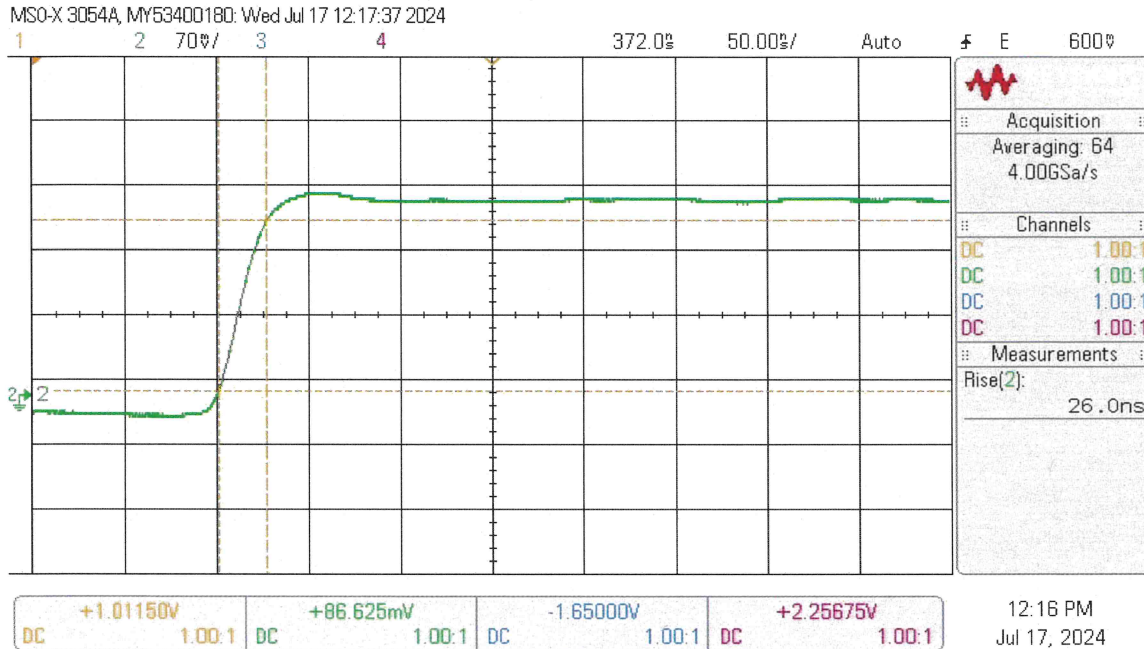
Flatness dB: ±0.88 dB



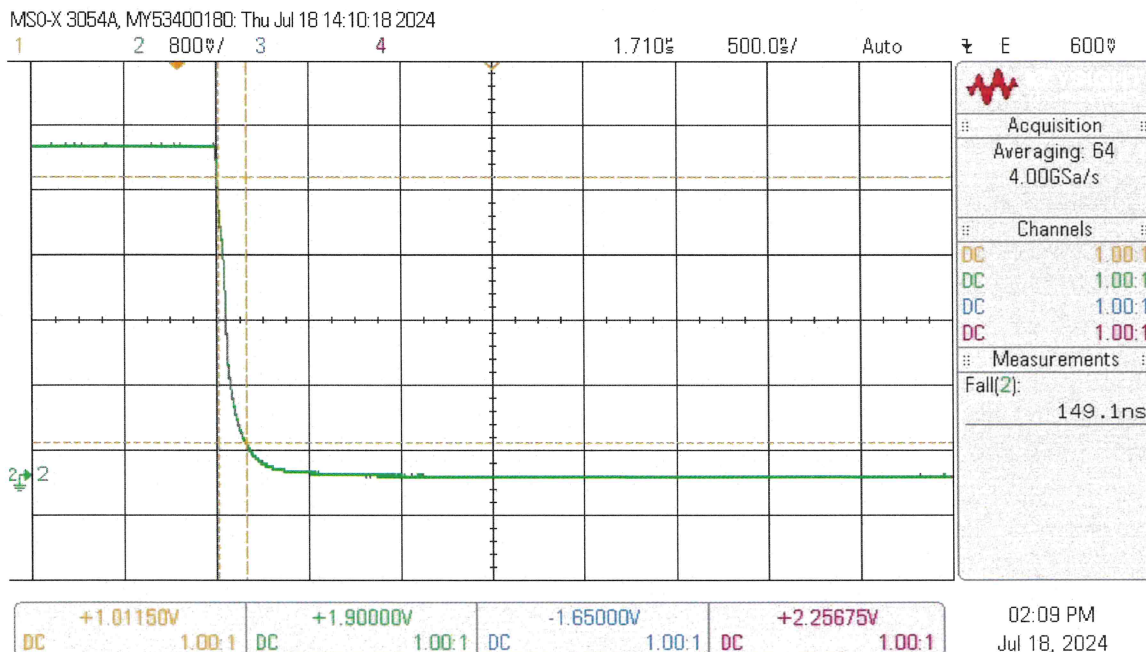


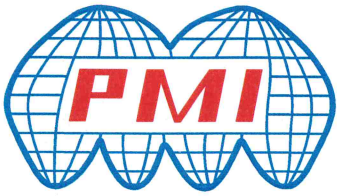
Summary Data
For
EWDM-2G6G-65-70MV-1

Rise Time



Fall and Recovery Time





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

Settling Time

