





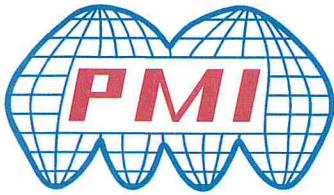
**Summary Data
For
EWDM-2G6G-65-70MV-1**

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	11.294 dB	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	1 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	5.3 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-34 dBc	
17	SW Third Harmonic:	-12 dBc MIN	-37 dBc	
18	VIDEO OUT TSS:	-71 dBm MAX	-71.6 dBm	
19	VIDEO OUT Dynamic Range:	-65 to 0 dBm	-65 to 0 dBm	
20	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	71.3 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	0.25 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	1.13 dB	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	1.49 dB	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	-16 mV	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	16.5 ns	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	16 ns	
27	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value, MAX	40.8 ns	
28	VIDEO OUT Recovery Time:	0.5 us MAX to within 1 dB of baseline	0.198 us	



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

29	VIDEO OUT Video Frequency Flatness:	± 1.0 dB MAX	0.84 dB	PMI QA3
30	VIDEO OUT CW Immunity:	A. CW Immune Power TSS to -40 dBm Baseline Shift: 200 mV MAX	97 mV	
		B. Pulse Peak Amplitude Loss; 2 dB MAX	1 dB	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	3 ms	
		CW Recovery Time at CW = -40 dBm, ≤ 50 us	47 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	94 mV	



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

36	Droop of the Output Video Pulse @ 300us & - 65 dBm	70mV (1 dB) MAX	10 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 @ 630 mA -15 V @ 140 mA	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	PASS	

QA/QC Approval:

[Signature]

Date:

1-30-23



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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL35819
Date: 10/07/22
Tested By: EA Valdez
Test Temp: +25°C
Input Port: RF Port

DC Offset: -16 mV



Frequency

2 GHz	INTERCEPT (mV)	4923
	SLOPE (mV/dB)	71.1
	MAX LIN ERROR	0.42
	MAX ACC ERROR	1.13

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
293	651	1006	1372	1732	2070	2429	2798	3143	3523	3871	4214	4566	4893	
-7	-5	-6	5	9	-8	-5	9	-2	23	16	3	-1	-30	
-0.10	-0.07	-0.08	0.07	0.13	-0.12	-0.07	0.12	-0.03	0.32	0.21	0.04	-0.01	-0.42	
0.53	0.58	0.59	0.76	0.84	0.62	0.68	0.89	0.76	1.13	1.04	0.88	0.85	0.47	

RF Input Power (dBm)

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

3 GHz	INTERCEPT (mV)	4885
	SLOPE (mV/dB)	70.4
	MAX LIN ERROR	0.22
	MAX ACC ERROR	0.87

298	657	1014	1374	1734	2073	2423	2778	3119	3484	3829	4177	4529	4884	
-13	-6	-1	8	16	3	1	4	-7	6	-1	-5	-4	-1	
-0.18	-0.08	-0.01	0.11	0.22	0.04	0.01	0.06	-0.10	0.09	-0.01	-0.06	-0.06	-0.02	
0.60	0.67	0.71	0.79	0.87	0.66	0.60	0.61	0.42	0.58	0.45	0.36	0.33	0.34	

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

4 GHz	INTERCEPT (mV)	4826
	SLOPE (mV/dB)	70.4
	MAX LIN ERROR	0.25
	MAX ACC ERROR	0.59

241	597	940	1309	1674	2009	2366	2718	3068	3417	3764	4116	4464	4834	
-7	-3	-12	5	18	0	5	5	3	0	-6	-6	-10	8	
-0.09	-0.04	-0.17	0.07	0.25	0.01	0.07	0.07	0.04	-0.01	-0.08	-0.08	-0.14	0.11	
-0.20	-0.18	-0.34	-0.13	0.03	-0.25	-0.21	-0.24	-0.30	-0.37	-0.47	-0.50	-0.59	-0.36	

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

5 GHz	INTERCEPT (mV)	4840
	SLOPE (mV/dB)	71
	MAX LIN ERROR	0.16
	MAX ACC ERROR	0.53

230	583	926	1292	1656	1995	2358	2723	3075	3420	3770	4126	4480	4844	
2	0	-12	0	9	-7	1	11	9	-1	-6	-5	-5	4	
0.03	0.00	-0.16	-0.01	0.12	-0.10	0.02	0.16	0.12	-0.02	-0.08	-0.06	-0.08	0.05	
-0.36	-0.38	-0.53	-0.37	-0.23	-0.44	-0.32	-0.17	-0.20	-0.33	-0.39	-0.36	-0.36	-0.22	

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

6 GHz	INTERCEPT (mV)	4835
	SLOPE (mV/dB)	71.3
	MAX LIN ERROR	0.22
	MAX ACC ERROR	0.93

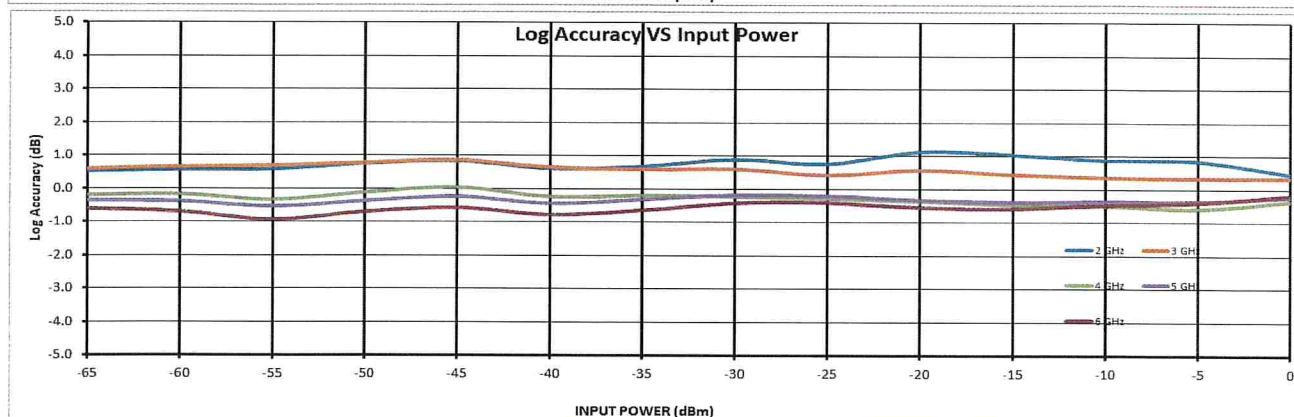
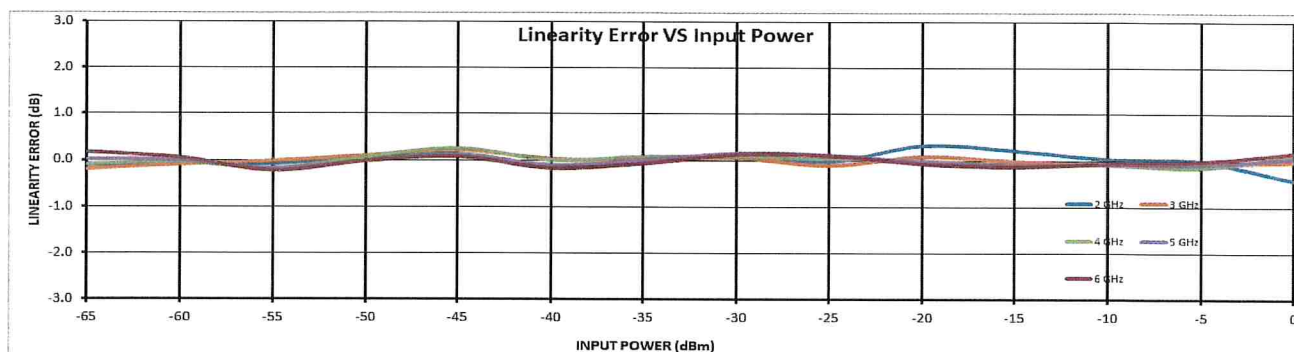
213	561	898	1269	1632	1971	2335	2705	3060	3404	3756	4118	4477	4847	
13	4	-15	-1	5	-12	-4	9	8	-5	-9	-4	-1	12	
0.18	0.06	-0.22	-0.01	0.08	-0.17	-0.06	0.13	0.11	-0.07	-0.13	-0.05	-0.02	0.17	
-0.60	-0.69	-0.93	-0.69	-0.67	-0.78	-0.64	-0.42	-0.41	-0.55	-0.58	-0.47	-0.40	-0.18	

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

AVG. SLOPE: 70.8 mV/dB

0.60	0.68	0.82	0.74	0.72	0.72	0.66	0.66	0.59	0.84	0.81	0.69	0.72	0.42	
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Flatness dB: ±0.84 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL35819
Date: 01/30/23
Tested By: J. Monley
Test Temp: +25°C
Input Port: BIT Port

DC Offset: 10 mV



Frequency

2 GHz	INTERCEPT (mV)	4924
	SLOPE (mV/dB)	70.9
	MAX LIN ERROR	0.40
	MAX ACC ERROR	1.04

3 GHz	INTERCEPT (mV)	4875
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.25
	MAX ACC ERROR	0.74

4 GHz	INTERCEPT (mV)	4821
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.24
	MAX ACC ERROR	0.67

5 GHz	INTERCEPT (mV)	4844
	SLOPE (mV/dB)	70.8
	MAX LIN ERROR	0.25
	MAX ACC ERROR	0.69

6 GHz	INTERCEPT (mV)	4843
	SLOPE (mV/dB)	71.1
	MAX LIN ERROR	0.24
	MAX ACC ERROR	0.9

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
309	663	1018	1383	1746	2085	2444	2806	3145	3525	3876	4216	4569	4895
-7	-8	-7	3	12	-3	1	9	-7	19	16	1	0	-29
-0.10	-0.11	-0.10	0.05	0.17	-0.05	0.02	0.12	-0.09	0.27	0.22	0.02	0.00	-0.40
0.47	0.48	0.51	0.69	0.83	0.63	0.72	0.86	0.65	1.04	1.01	0.83	0.83	0.45

311	662	1018	1378	1740	2079	2428	2776	3113	3477	3825	4171	4523	4872
-10	-9	-4	6	18	6	6	3	-11	3	1	-4	-2	-3
-0.14	-0.13	-0.05	0.09	0.25	0.09	0.07	0.04	-0.15	0.04	0.01	-0.05	-0.03	-0.05
0.50	0.47	0.51	0.62	0.74	0.55	0.49	0.42	0.20	0.36	0.29	0.19	0.18	0.12

263	609	953	1320	1686	2026	2381	2724	3067	3415	3765	4116	4463	4827
-3	-8	-14	2	17	8	12	5	-2	-5	-5	-5	-8	6
-0.05	-0.11	-0.20	0.04	0.24	0.11	0.18	0.07	-0.03	-0.07	-0.07	-0.07	-0.11	0.08
-0.18	-0.28	-0.41	-0.21	-0.03	-0.20	-0.17	-0.31	-0.45	-0.52	-0.56	-0.59	-0.67	-0.51

248	591	933	1304	1671	2014	2377	2730	3077	3423	3778	4131	4487	4847
5	-6	-18	-1	12	1	10	9	2	-6	-4	-5	-3	3
0.07	-0.08	-0.25	-0.01	0.17	0.02	0.15	0.13	0.03	-0.08	-0.06	-0.08	-0.05	0.04
-0.40	-0.54	-0.69	-0.43	-0.23	-0.37	-0.23	-0.23	-0.31	-0.41	-0.38	-0.38	-0.33	-0.23

241	578	918	1284	1650	1996	2360	2722	3072	3410	3767	4128	4488	4854
17	-2	-17	-6	5	-5	4	11	6	-12	-10	-4	1	11
0.24	-0.02	-0.24	-0.09	0.07	-0.06	0.06	0.15	0.08	-0.16	-0.14	-0.06	0.01	0.16
-0.50	-0.72	-0.90	-0.72	-0.53	-0.63	-0.47	-0.34	-0.38	-0.59	-0.53	-0.42	-0.32	-0.13

AVG. SLOPE: 70.6 mV/dB

0.50	0.50	0.71	0.70	0.68	0.63	0.60	0.60	0.55	0.81	0.79	0.71	0.75	0.48
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RF Input Power (dBm)

Measured Value (mV)	
ERROR (mV)	1
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

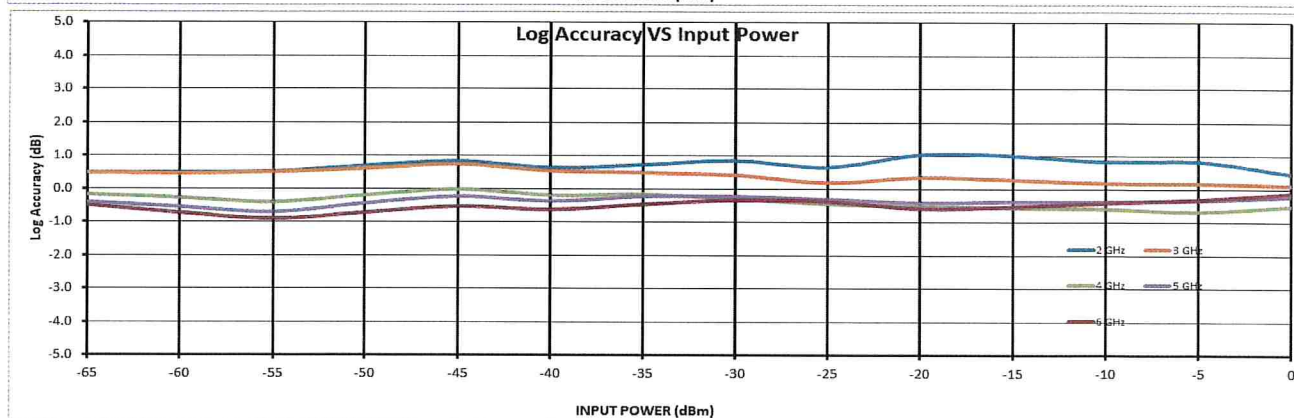
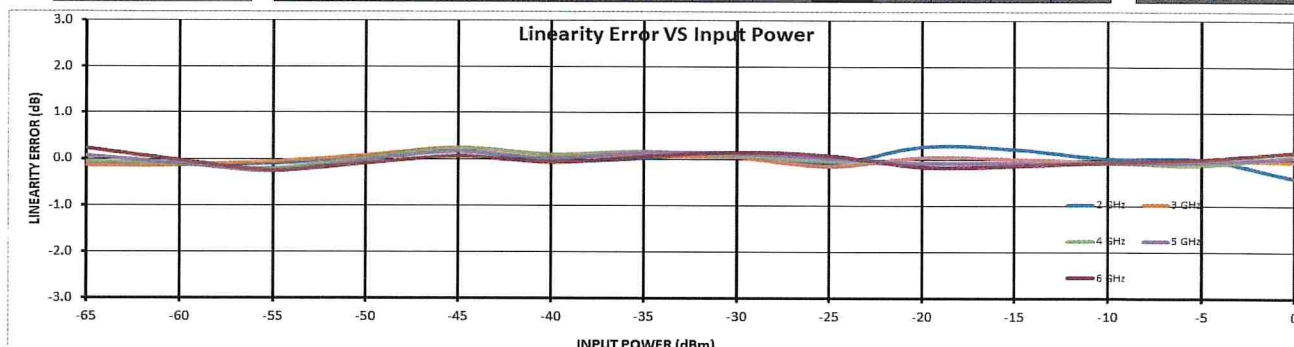
Measured Value (mV)	
ERROR (mV)	-4
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

Measured Value (mV)	
ERROR (mV)	-8
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

Measured Value (mV)	
ERROR (mV)	-5
LINEARITY ERROR (dB)	
LOG ACCURACY (dB)	

Measured Value (mV)	
ERROR (mV)	-4
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: PL35819
Date: 10/07/22
Tested By: EA Valdez
Test Temp: 0°C
Input Port: RF Port

DC Offset: 0 mV



Frequency

2 GHz	INTERCEPT (mV)	4977
	SLOPE (mV/dB)	71.5
	MAX LIN ERROR	0.39
	MAX ACC ERROR	1.17

3 GHz	INTERCEPT (mV)	4933
	SLOPE (mV/dB)	70.9
	MAX LIN ERROR	0.17
	MAX ACC ERROR	0.64

4 GHz	INTERCEPT (mV)	4876
	SLOPE (mV/dB)	70.7
	MAX LIN ERROR	0.16
	MAX ACC ERROR	0.62

5 GHz	INTERCEPT (mV)	4885
	SLOPE (mV/dB)	71.5
	MAX LIN ERROR	0.21
	MAX ACC ERROR	0.77

6 GHz	INTERCEPT (mV)	4882
	SLOPE (mV/dB)	71.6
	MAX LIN ERROR	0.26
	MAX ACC ERROR	0.92

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
326	684	1048	1400	1759	2101	2459	2832	3185	3574	3927	4263	4617	4952
-1	-1	5	0	1	-14	-14	1	-3	28	23	2	-2	-25
-0.02	-0.01	0.08	0.00	0.02	-0.20	-0.20	0.02	-0.05	0.39	0.33	0.02	-0.03	-0.34
0.58	0.60	0.71	0.66	0.69	0.49	0.52	0.76	0.71	1.17	1.13	0.85	0.82	0.52

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
322	679	1043	1391	1751	2096	2445	2803	3155	3528	3879	4220	4576	4931
-5	-2	7	1	7	-2	-8	-4	-6	12	9	-4	-3	-2
-0.07	-0.03	0.11	0.02	0.10	-0.03	-0.11	-0.06	-0.09	0.17	0.13	-0.06	-0.04	-0.03
0.52	0.53	0.64	0.53	0.58	0.42	0.32	0.35	0.29	0.53	0.46	0.24	0.24	0.22

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
277	634	986	1341	1706	2044	2399	2748	3108	3464	3818	4165	4515	4885
-2	1	-1	1	11	-3	-2	-7	0	2	3	-4	-8	9
-0.04	0.01	-0.01	0.01	0.16	-0.06	-0.03	-0.09	0.00	0.03	0.04	-0.06	-0.11	0.13
-0.11	-0.10	-0.16	-0.17	-0.06	-0.31	-0.32	-0.42	-0.37	-0.37	-0.40	-0.53	-0.42	-0.42

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
249	602	949	1309	1668	2011	2376	2744	3108	3459	3816	4167	4523	4889
9	5	-5	-3	-1	-15	-7	3	10	4	3	-3	-4	4
0.13	0.07	-0.07	-0.04	-0.01	-0.21	-0.10	0.04	0.14	0.05	0.05	-0.04	-0.06	0.06
-0.61	-0.65	-0.68	-0.62	-0.68	-0.77	-0.64	-0.48	-0.37	-0.44	-0.43	-0.60	-0.60	-0.37

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
244	595	939	1301	1660	2000	2364	2732	3098	3448	3807	4163	4524	4896
15	9	-5	-1	0	-18	-12	-2	5	-2	-1	-3	0	14
0.22	0.12	-0.08	-0.02	0.00	-0.25	-0.17	-0.03	0.08	-0.03	-0.01	-0.04	0.00	0.20
-0.58	-0.65	-0.82	-0.74	-0.70	-0.92	-0.81	-0.65	-0.51	-0.60	-0.56	-0.56	-0.49	-0.27

AVG. SLOPE: 71.2 mV/dB

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.58	0.62	0.77	0.69	0.69	0.71	0.67	0.70	0.61	0.88	0.84	0.70	0.72	0.47

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

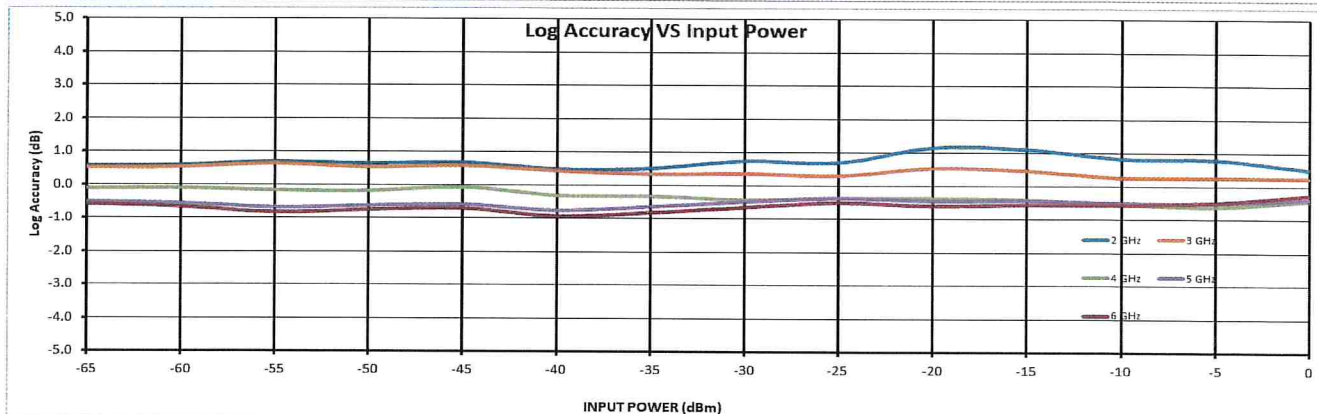
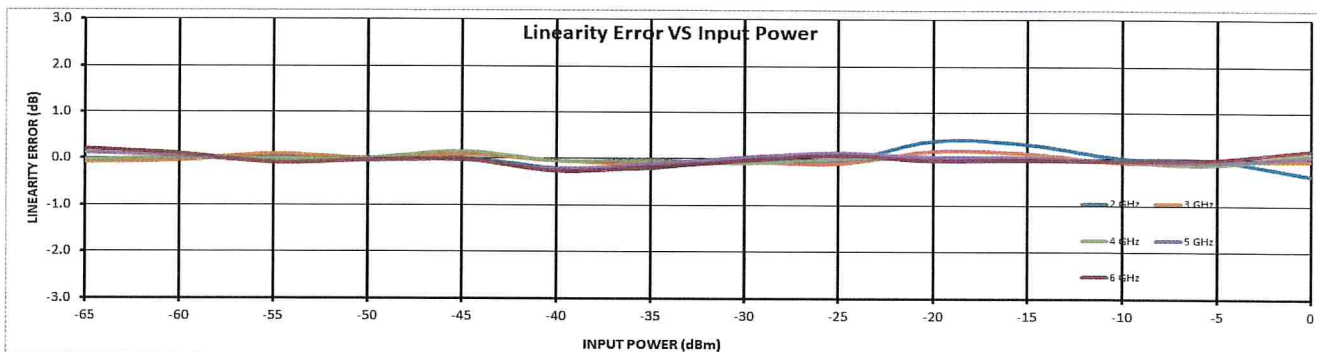
Measured Value (mV)
ERROR (mV)
LINEARITY ERROR (dB)
LOG ACCURACY (dB)

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: ±0.88 dB





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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL35819
Date: 10/07/22
Tested By: EA Valdez
Test Temp: +85°C
Input Port: RF Port

DC Offset: -2 mV



Frequency

2 GHz	INTERCEPT (mV)	4778
	SLOPE (mV/dB)	70.7
	MAX LIN ERROR	0.93
	MAX ACC ERROR	1.24

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
163	523	879	1247	1606	1942	2307	2695	3046	3398	3737	4079	4406	4712
-22	-15	-13	2	8	-10	2	37	35	33	19	8	-18	-66
-0.31	-0.22	-0.18	0.03	0.11	-0.13	0.03	0.52	0.49	0.47	0.27	0.11	-0.26	-0.93
0.34	0.44	0.49	0.71	0.80	0.56	0.74	1.24	1.21	1.20	1.01	0.86	0.50	-0.17

RF Input Power (dBm)

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

3 GHz	INTERCEPT (mV)	4760
	SLOPE (mV/dB)	69.9
	MAX LIN ERROR	0.48
	MAX ACC ERROR	1.04

175	547	900	1265	1623	1960	2314	2680	3027	3365	3698	4044	4386	4722
-33	-11	-7	9	17	5	10	26	24	13	-4	-7	-14	-28
-0.48	-0.15	-0.10	0.12	0.25	0.07	0.14	0.38	0.34	0.18	-0.05	-0.10	-0.20	-0.40
0.51	0.78	0.79	0.96	1.04	0.82	0.84	1.02	0.94	0.74	0.46	0.36	0.21	-0.02

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

4 GHz	INTERCEPT (mV)	4687
	SLOPE (mV/dB)	70.4
	MAX LIN ERROR	0.56
	MAX ACC ERROR	0.92

118	427	799	1165	1522	1866	2224	2602	2965	3289	3625	3975	4317	4669
10	-33	-13	0	5	-3	3	29	39	11	-5	-7	-14	-28
0.14	-0.47	-0.19	0.01	0.07	-0.04	0.04	0.40	0.56	0.16	-0.07	-0.11	-0.25	-0.25
-0.30	-0.92	-0.64	-0.45	-0.39	-0.52	-0.44	-0.08	0.07	-0.34	-0.58	-0.62	-0.77	-0.78

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

5 GHz	INTERCEPT (mV)	4702
	SLOPE (mV/dB)	70.5
	MAX LIN ERROR	0.57
	MAX ACC ERROR	0.69

124	447	816	1175	1533	1878	2236	2620	2980	3302	3640	3994	4337	4675
4	-26	-10	-3	3	-5	1	33	40	10	-5	-3	-12	-27
0.05	-0.37	-0.15	-0.04	0.04	-0.06	0.02	0.46	0.57	0.14	-0.07	-0.04	-0.18	-0.38
-0.21	-0.63	-0.42	-0.31	-0.24	-0.35	-0.27	0.17	0.28	-0.16	-0.36	-0.35	-0.48	-0.69

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

6 GHz	INTERCEPT (mV)	4692
	SLOPE (mV/dB)	71.2
	MAX LIN ERROR	0.62
	MAX ACC ERROR	1.49

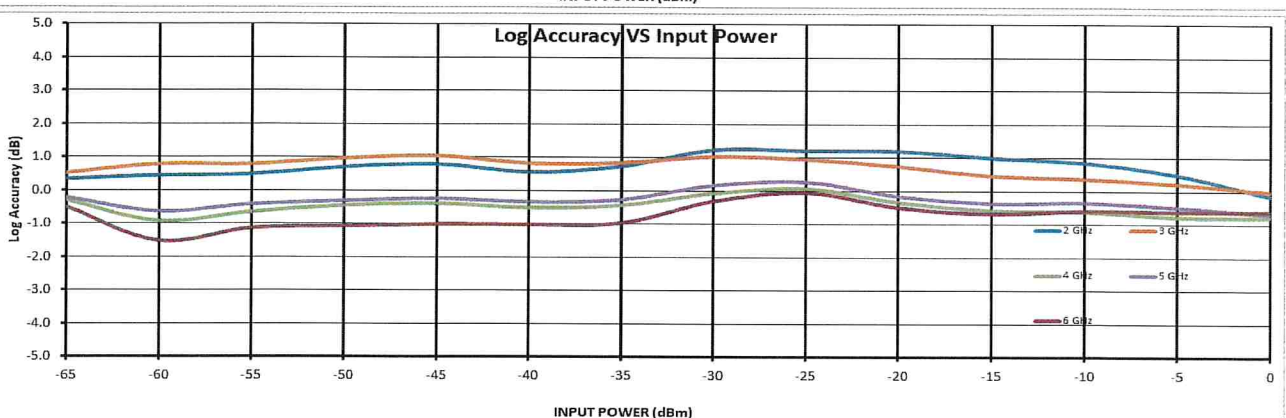
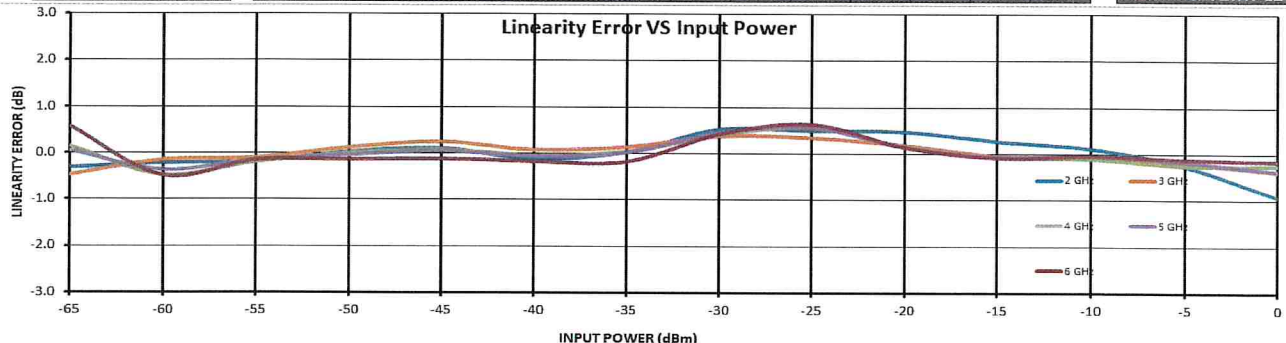
103	384	764	1121	1478	1830	2186	2585	2956	3277	3617	3976	4327	4680
40	-35	-11	-10	-9	-13	-13	30	44	9	-7	-4	-9	-12
0.56	-0.49	-0.15	-0.14	-0.13	-0.19	-0.19	0.41	0.62	0.13	-0.10	-0.05	-0.13	-0.17
-0.51	1.49	-1.14	-1.08	-1.02	-1.03	-0.98	-0.32	-0.06	-0.51	-0.69	-0.60	-0.62	-0.62

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

AVG. SLOPE: 70.5 mV/dB

0.51	1.17	0.96	1.02	1.00	0.92	0.91	0.78	0.64	0.86	0.85	0.74	0.63	0.38
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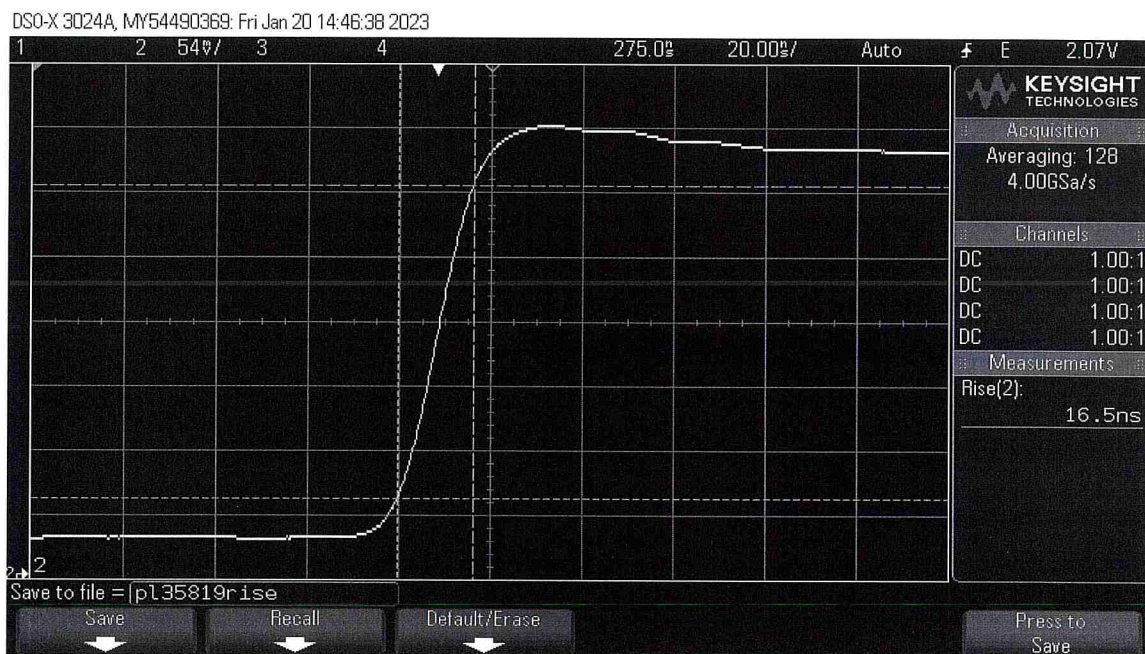
Flatness dB: ±1.17 dB



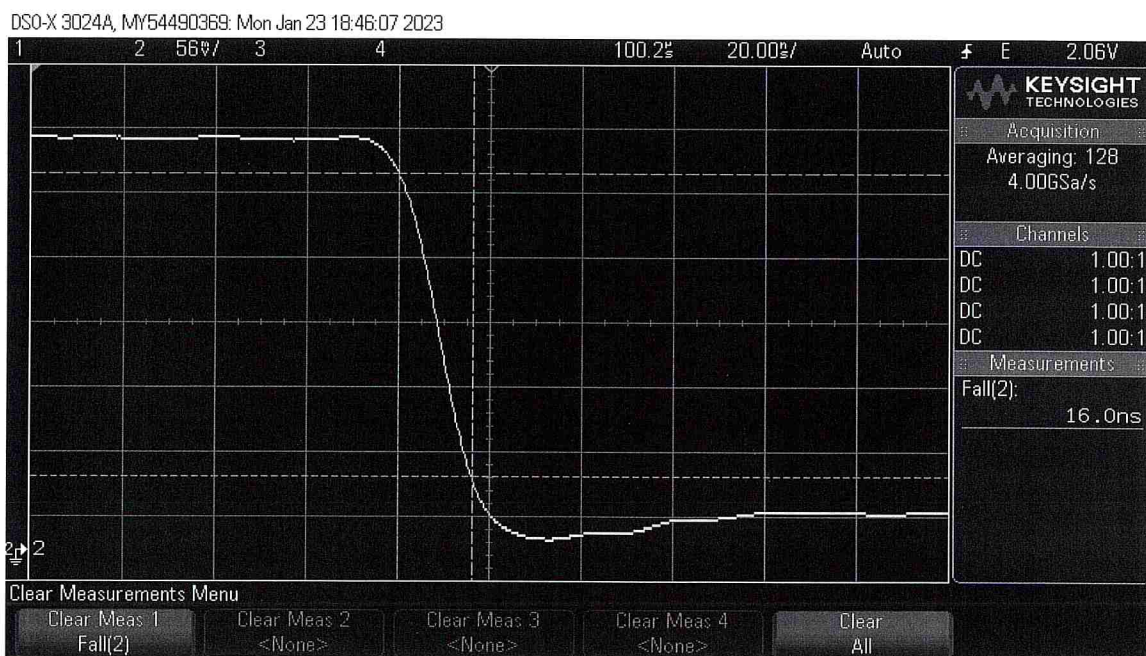


Summary Data
For
EWDM-2G6G-65-70MV-1

Rise Time



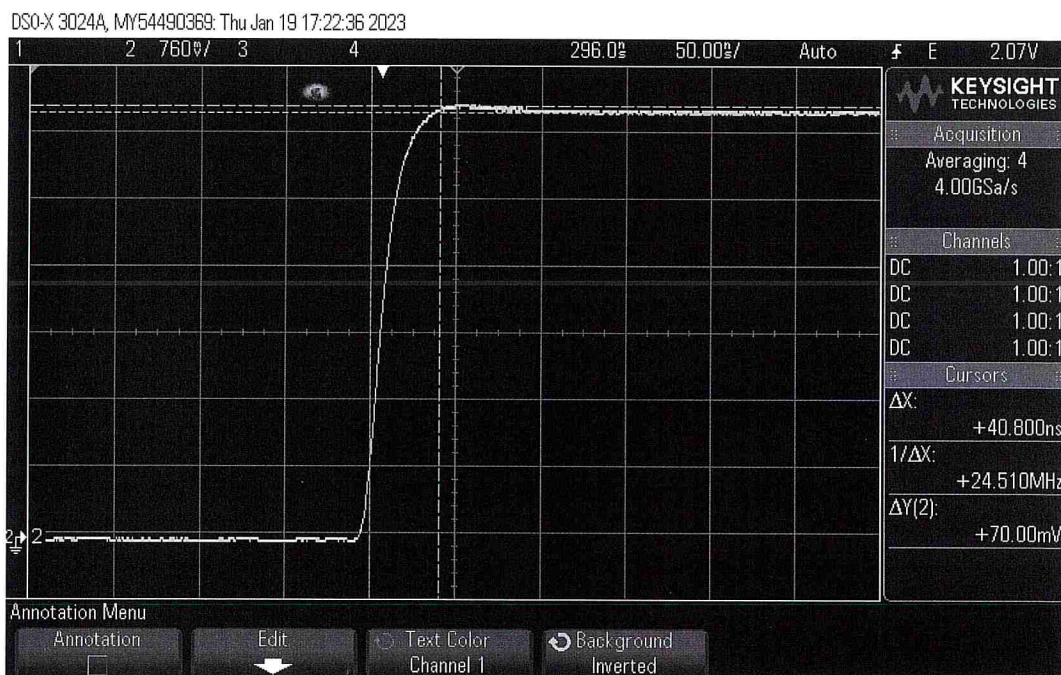
Fall Time





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

Settling Time



Recovery Time

