LOG TRANSFER WITH FREQUENCY

TESTED BY: JOHNM.
MODEL: EWDM-6G18G-65-70MV-1
SERIAL NO: PL30195
DATE: 1-29-21

Test Temp: 25C
Video Offset: 0.008

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
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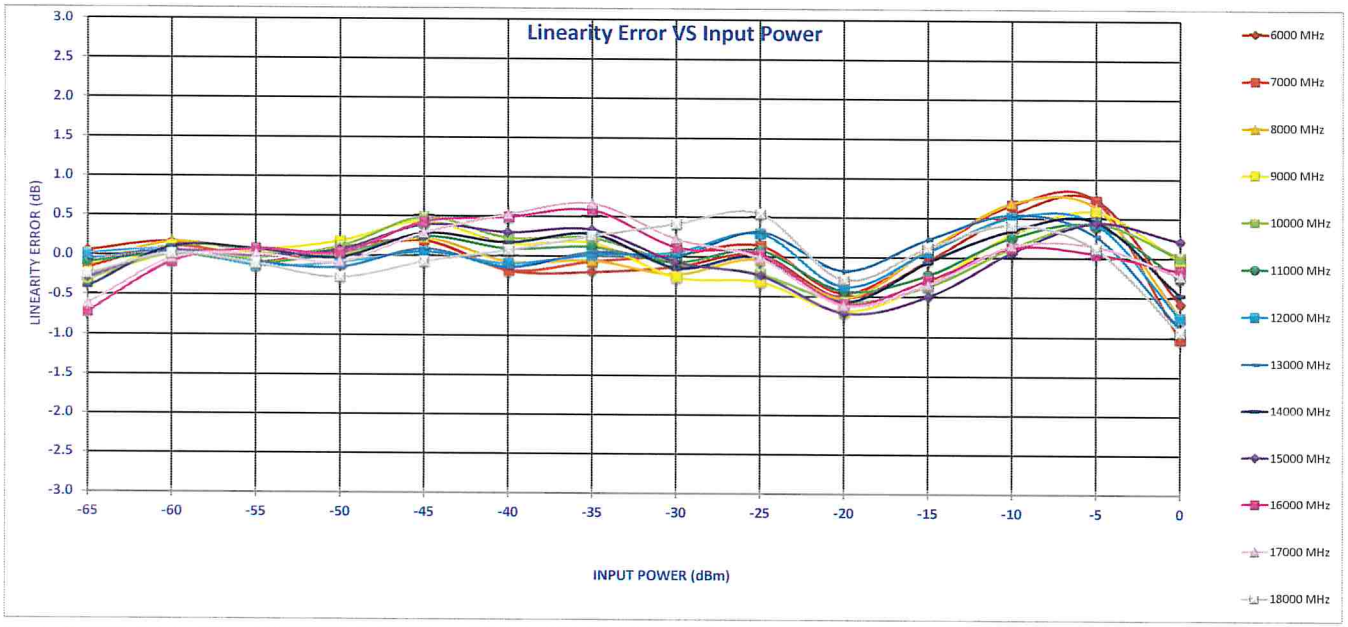
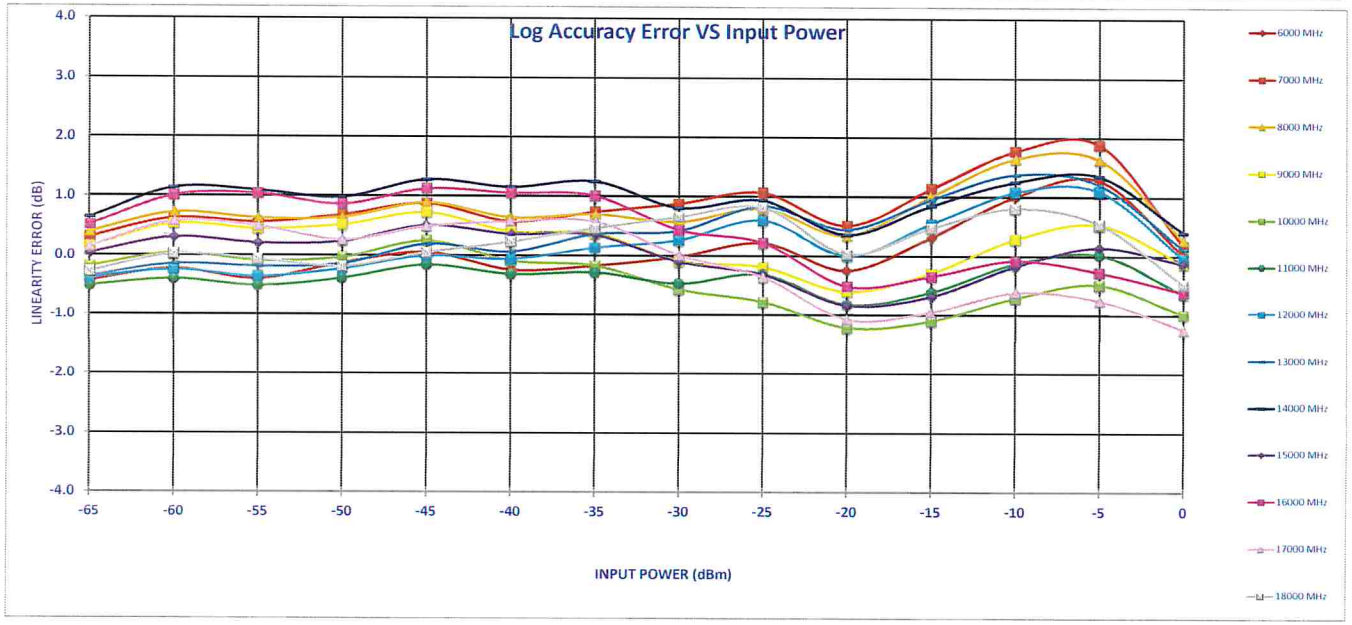
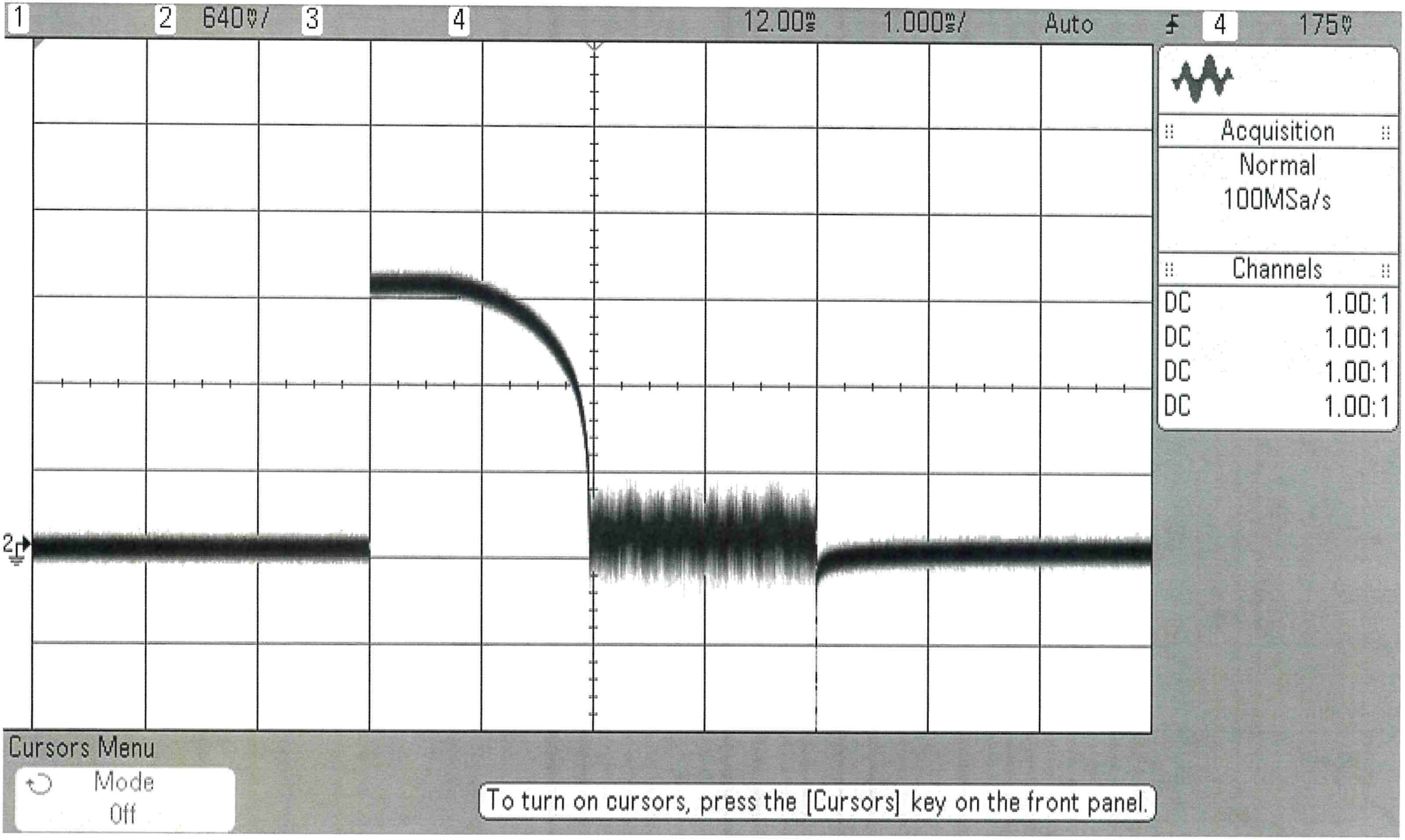
ISO 9001:2000 CERTIFIED

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
6000 MHz	INTERCEPT (mV)	4923.5	234	603	946	1320	1688	2022	2382	2748	3120	3442	3837	4241	4615	4881	Measured Value (mV)
	SLOPE (mV/dB)	72.196	3	11	-7	6	13	-14	-15	-10	1	-38	-4	40	53	-42	Error (mV)
			0.05	0.16	-0.09	0.09	0.19	-0.19	-0.20	-0.13	0.02	-0.52	-0.05	0.55	0.73	-0.59	LINEARITY ERROR (dB)
			-0.43	-0.23	-0.40	-0.14	0.05	-0.25	-0.18	-0.02	0.22	-0.25	0.32	1.01	1.27	0.02	ACCURACY ERROR (dB)
7000 MHz	INTERCEPT (mV)	4965.6	286	664	1014	1378	1747	2080	2447	2812	3180	3496	3895	4295	4658	4892	Measured Value (mV)
	SLOPE (mV/dB)	71.811	-12	7	-2	3	13	-13	-5	1	10	-33	7	48	51	-74	Error (mV)
			-0.17	0.10	-0.03	0.04	0.18	-0.18	-0.07	0.01	0.14	-0.46	0.09	0.66	0.72	-1.02	LINEARITY ERROR (dB)
			0.30	0.63	0.55	0.68	0.88	0.57	0.74	0.88	1.06	0.51	1.13	1.77	1.88	0.17	ACCURACY ERROR (dB)
8000 MHz	INTERCEPT (mV)	4952.6	292	671	1019	1375	1748	2085	2444	2790	3161	3484	3886	4286	4640	4899	Measured Value (mV)
	SLOPE (mV/dB)	71.553	-10	12	2	0	15	-5	-4	-16	-3	-38	7	49	45	-54	Error (mV)
			-0.13	0.16	0.03	0.00	0.21	-0.08	-0.06	-0.22	-0.04	-0.52	0.09	0.68	0.63	-0.75	LINEARITY ERROR (dB)
			0.39	0.72	0.63	0.64	0.89	0.64	0.70	0.57	0.79	0.34	1.01	1.64	1.63	0.27	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4873.4	275	657	1006	1366	1736	2068	2421	2743	3091	3417	3794	4190	4562	4871	Measured Value (mV)
	SLOPE (mV/dB)	70.396	-23	7	4	12	30	10	11	-18	-22	-48	-23	21	41	-2	Error (mV)
			-0.32	0.10	0.06	0.18	0.43	0.15	0.16	-0.26	-0.32	-0.69	-0.33	0.29	0.58	-0.03	LINEARITY ERROR (dB)
			0.15	0.53	0.44	0.51	0.72	0.40	0.37	-0.09	-0.19	-0.60	-0.29	0.29	0.53	-0.12	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4808.6	251	622	968	1327	1702	2033	2382	2709	3049	3373	3736	4119	4490	4809	Measured Value (mV)
	SLOPE (mV/dB)	69.782	-22	0	-3	7	34	16	16	-6	-15	-40	-26	8	30	0	Error (mV)
			-0.31	0.00	-0.04	0.11	0.48	0.22	0.23	-0.09	-0.22	-0.57	-0.37	0.12	0.43	0.01	LINEARITY ERROR (dB)
			-0.19	0.03	-0.09	-0.04	0.24	-0.09	-0.18	-0.57	-0.78	-1.22	-1.11	-0.71	-0.49	-0.99	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4852.7	228	591	938	1302	1673	2017	2374	2716	3082	3401	3771	4160	4526	4834	Measured Value (mV)
	SLOPE (mV/dB)	71.042	-7	1	-7	1	17	6	8	-5	5	-31	-16	18	29	-19	Error (mV)
			-0.10	0.01	-0.10	0.02	0.24	0.08	0.11	-0.08	0.08	-0.43	-0.23	0.25	0.40	-0.26	LINEARITY ERROR (dB)
			-0.52	-0.40	-0.52	-0.39	-0.16	-0.32	-0.29	-0.47	-0.32	-0.83	-0.61	-0.14	0.02	-0.64	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4932	237	602	949	1313	1684	2035	2404	2768	3147	3460	3853	4246	4602	4877	Measured Value (mV)
	SLOPE (mV/dB)	72.243	1	5	-10	-7	3	-7	1	3	21	-27	5	36	31	-55	Error (mV)
			0.01	0.06	-0.13	-0.09	0.04	-0.10	0.01	0.05	0.29	-0.38	0.06	0.50	0.43	-0.76	LINEARITY ERROR (dB)
			-0.39	-0.25	-0.36	-0.23	-0.01	-0.07	0.13	0.26	0.60	0.01	0.54	1.08	1.09	-0.04	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4952.6	239	609	961	1319	1698	2044	2420	2779	3164	3491	3882	4267	4610	4888	Measured Value (mV)
	SLOPE (mV/dB)	72.451	-4	3	-7	-11	6	-11	3	0	23	-13	16	39	20	-65	Error (mV)
			-0.06	0.05	-0.09	-0.15	0.08	-0.15	0.04	0.00	0.31	-0.17	0.22	0.54	0.27	-0.89	LINEARITY ERROR (dB)
			-0.36	-0.15	-0.19	-0.15	0.19	0.06	0.36	0.41	0.84	0.44	0.95	1.37	1.20	0.12	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4941.8	310	700	1052	1399	1775	2121	2483	2807	3171	3485	3875	4258	4620	4908	Measured Value (mV)
	SLOPE (mV/dB)	70.815	-29	7	5	-2	20	12	20	-10	0	-40	-5	24	32	-34	Error (mV)
			-0.41	0.10	0.07	-0.03	0.28	0.17	0.28	-0.15	-0.01	-0.57	-0.06	0.34	0.46	-0.48	LINEARITY ERROR (dB)
			0.64	1.13	1.09	0.98	1.27	1.15	1.24	0.81	0.93	0.36	0.85	1.24	1.34	0.40	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4855.6	267	641	989	1346	1720	2065	2419	2742	3082	3400	3766	4157	4535	4870	Measured Value (mV)
	SLOPE (mV/dB)	70.285	-20	2	-1	5	27	21	23	-5	-16	-50	-35	4	31	14	Error (mV)
			-0.29	0.04	-0.01	0.07	0.39	0.30	0.33	-0.07	-0.23	-0.71	-0.50	0.06	0.44	0.20	LINEARITY ERROR (dB)
			0.03	0.30	0.20	0.23	0.50	0.36	0.34	-0.11	-0.32	-0.84	-0.68	-0.18	0.15	-0.14	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4847.7	301	691	1048	1391	1764	2114	2466	2780	3120	3423	3790	4164	4505	4836	Measured Value (mV)
	SLOPE (mV/dB)	69.175	-50	-6	5	2	29	33	39	-8	2	-41	-20	8	3	-12	Error (mV)
			-0.73	-0.09	0.07	0.03	0.42	0.48	0.57	0.11	0.02	-0.60	-0.29	0.12	0.05	-0.17	LINEARITY ERROR (dB)
			0.51	1.01	1.03	0.86	1.12	1.05	1.01	0.43	0.22	-0.52	-0.35	-0.08	-0.28	-0.61	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4806.7	275	660	1009	1348	1719	2080	2435	2750	3079	3383	3747	4126	4471	4791	Measured Value (mV)
	SLOPE (mV/dB)	69.058	-43	-3	0	-6	20	36	45	15	-1	-43	-24	10	10	-16	Error (mV)
			-0.62	-0.05	0.01	-0.08	0.29	0.52	0.66	0.22	-0.02	-0.62	-0.35	0.14	0.14	-0.23	LINEARITY ERROR (dB)
			0.15	0.57	0.48	0.26	0.48	0.57	0.57	0.01	-0.36	-1.08	-0.95	-0.61	-0.76	-1.25	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4913	245	621	970	1316	1688	2056	2427	2796	3163	3462	3848	4227	4563	4846	Measured Value (mV)
	SLOPE (mV/dB)	71.548	-17	1	-8	-20	-5	5	18	29	39	-20	8	29	8	-67	Error (mV)
			-0.24	0.01	-0.11	-0.27	-0.07	0.07	0.25	0.41	0.54	-0.28	0.11	0.41	0.11	-0.94	LINEARITY ERROR (dB)
			-0.28	0.02	-0.07	-0.19	0.05	0.23	0.46	0.65	0.82	0.03	0.47	0.81	0.54	-0.47	ACCURACY ERROR (dB)
	Flatness	+/- dB	0.58	0.77	0.80	0.68	0.72	0.73	0.77	0.73	0.92	0.87	1.12	1.24	1.18	0.70	


Linearity Error VS Input Power
LINEARITY ERROR (dB)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
-65
-60
-55
-50
-45
-40
-35
-30
-25
-20
-15
-10
-5
0
INPUT POWER (dBm)
6000 MHz
7000 MHz
8000 MHz
9000 MHz
10000 MHz
11000 MHz
12000 MHz
13000 MHz
14000 MHz
15000 MHz
16000 MHz
17000 MHz
18000 MHz


Log Accuracy Error VS Input Power
LINEARITY ERROR (dB)
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-65
-60
-55
-50
-45
-40
-35
-30
-25
-20
-15
-10
-5
0
INPUT POWER (dBm)
6000 MHz
7000 MHz
8000 MHz
9000 MHz
10000 MHz
11000 MHz
12000 MHz
13000 MHz
14000 MHz
15000 MHz
16000 MHz
17000 MHz
18000 MHz

MSO-X 3054A, MY53400180: Fri Jan 29 11:48:24 2021