

LOG TRANSFER WITH FREQUENCY
 MODEL: HADA-D2001
 TESTED BY: JOHN M
 TEST DATE: 7-23-19
 SERIAL NO: PL20798
 TEST TEMP: +25C

Graph #1

DC Offset= 0.080 V

Frequency		
0.5 GHz	INTERCEPT (mV)	2382
	SLOPE (mV/dB)	50.3

1 GHz	INTERCEPT (mV)	2324
	SLOPE (mV/dB)	50.2

2 GHz	INTERCEPT (mV)	2337
	SLOPE (mV/dB)	50.2

Flatness +/- dB
Max Video Output Volts
Min Video Output Volts

	-40	-35	-30	-25	-20	-15	-10	-5	0
	372	626	878	1123	1370	1634	1870	2130	2389
	0	3	4	-3	-7	6	-9	-1	7
	0.00	0.06	0.07	-0.05	-0.14	0.12	-0.19	-0.01	0.14
	0.44	0.52	0.56	0.46	0.40	0.68	0.40	0.60	0.78
	313	575	816	1064	1317	1580	1817	2075	2323
	-3	8	-2	-5	-3	9	-5	2	-1
	-0.06	0.16	-0.04	-0.10	-0.06	0.18	-0.10	0.04	-0.02
	-0.74	-0.50	-0.68	-0.72	-0.66	-0.40	-0.66	-0.50	-0.54
	324	586	830	1077	1328	1592	1828	2087	2337
	-4	7	0	-4	-4	9	-6	2	0
	-0.07	0.14	0.00	-0.08	-0.08	0.18	-0.13	0.03	0.01
	-0.52	-0.28	-0.40	-0.40	-0.44	-0.16	-0.44	-0.26	-0.26
	0.60	0.50	0.60	0.60	0.50	0.50	0.50	0.50	0.70
	0.37	0.63	0.88	1.12	1.37	1.63	1.87	2.13	2.39
	0.31	0.58	0.82	1.06	1.32	1.58	1.82	2.08	2.32



PLANAR MONOLITHICS INDUSTRIES
 4921 Robert J. Mathews Parkway Suit 1
 El Dorado Hills, CA 95762
 TEL: 916-542-1401 FAX: 916-265-2597
 EMAIL: SALES@PMI-RF.COM

RF Input Power (dBm)

Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.14	-0.19
LOGGING ACCURACY (dB)	0.78	0.40

Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.18	-0.10
LOGGING ACCURACY (dB)	-0.40	-0.74

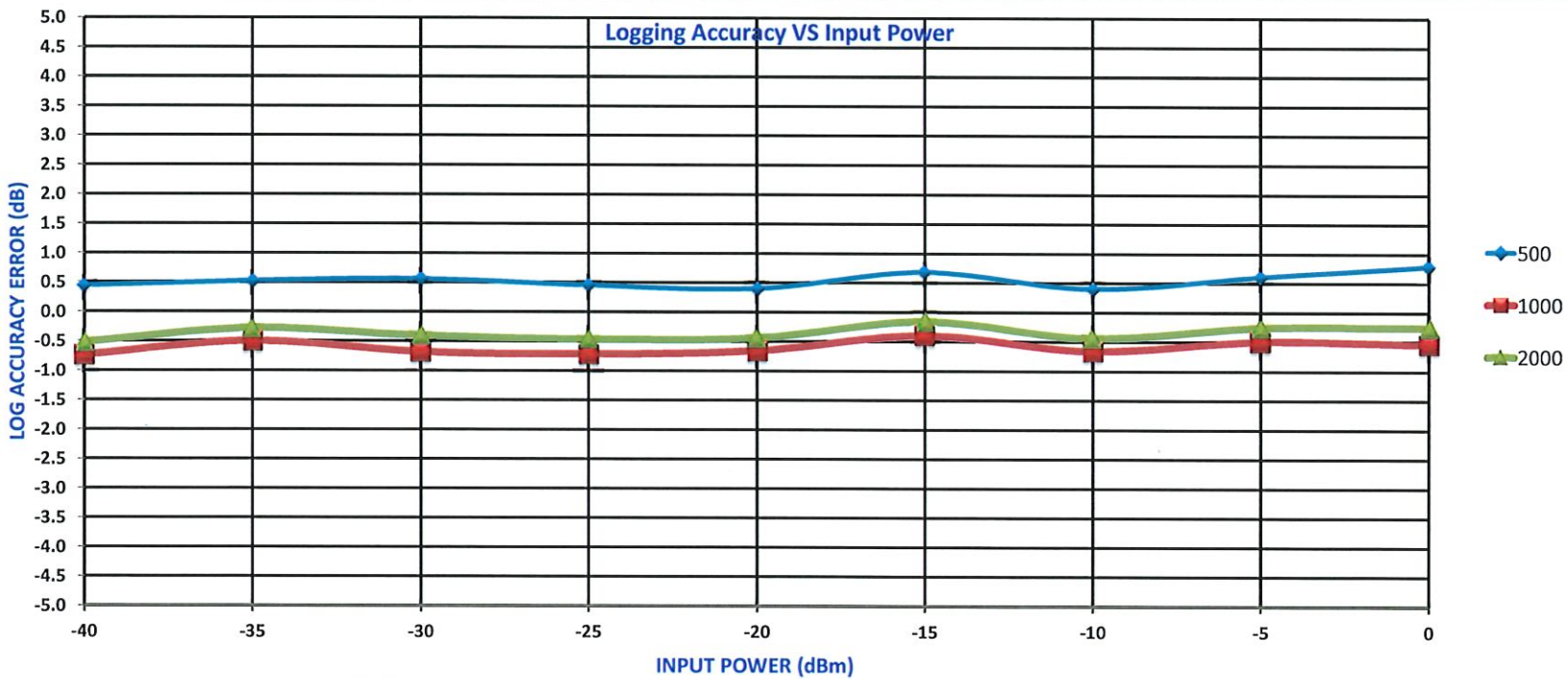
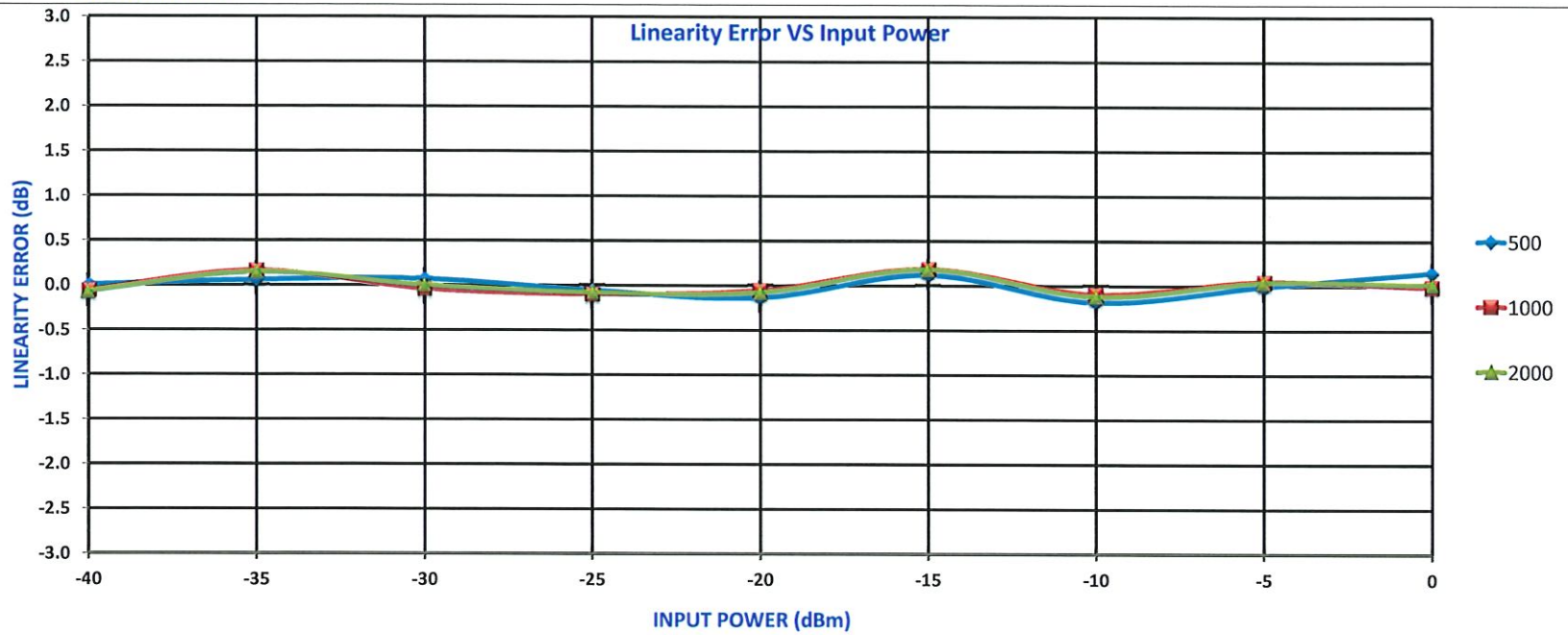
Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.18	-0.13
LOGGING ACCURACY (dB)	-0.16	-0.52

Logging Linearity vs Frequency	Error(dB)	
TOTAL LOG LINEARITY (dB)	0.18	-0.19

Logging Accuracy vs Frequency	Error(dB)	
TOTAL LOGGING ACCURACY (dB)	0.78	-0.74

Approved:
[Signature] 7/31/19

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LOG TRANSFER WITH FREQUENCY
 MODEL: HADA-D2001
 TESTED BY: JOHN M
 TEST DATE: 7-23-19
 SERIAL NO: PL20798
 TEST TEMP: +85C

Graph #3

DC Offset= 0.068 V



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Frequency		
0.5 GHz	INTERCEPT (mV)	2396
	SLOPE (mV/dB)	51.8

1 GHz	INTERCEPT (mV)	2342
	SLOPE (mV/dB)	51.8

2 GHz	INTERCEPT (mV)	2354
	SLOPE (mV/dB)	51.8

Flatness +/- dB
Max Video Output Volts
Min Video Output Volts

	-40	-35	-30	-25	-20	-15	-10	-5	0
	310	600	850	1101	1357	1623	1864	2135	2404
	-15	16	7	-1	-3	4	-14	-2	8
	-0.29	0.31	0.14	-0.01	-0.07	0.07	-0.27	-0.04	0.16
	-0.80	0.00	0.00	0.02	0.14	0.46	0.28	0.70	1.08
	260	542	791	1048	1307	1567	1816	2079	2347
	-11	12	2	0	1	2	-8	-4	5
	-0.22	0.23	0.04	0.01	0.01	0.04	-0.15	-0.07	0.11
	-1.80	-1.16	-1.18	-1.04	-0.86	-0.66	-0.68	-0.42	-0.06
	269	555	804	1059	1317	1579	1827	2091	2361
	-13	14	4	0	-1	2	-9	-4	7
	-0.25	0.27	0.08	0.00	-0.02	0.04	-0.18	-0.08	0.13
	-1.62	-0.90	-0.82	-0.52	-0.36	-0.22	-0.26	-0.16	0.22
	0.50	0.60	0.60	0.50	0.50	0.50	0.50	0.50	0.60
	0.31	0.60	0.85	1.10	1.36	1.62	1.86	2.14	2.40
	0.26	0.54	0.79	1.05	1.31	1.57	1.82	2.08	2.35

RF Input Power (dBm)

Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.31	-0.29
LOGGING ACCURACY (dB)	1.08	-0.80

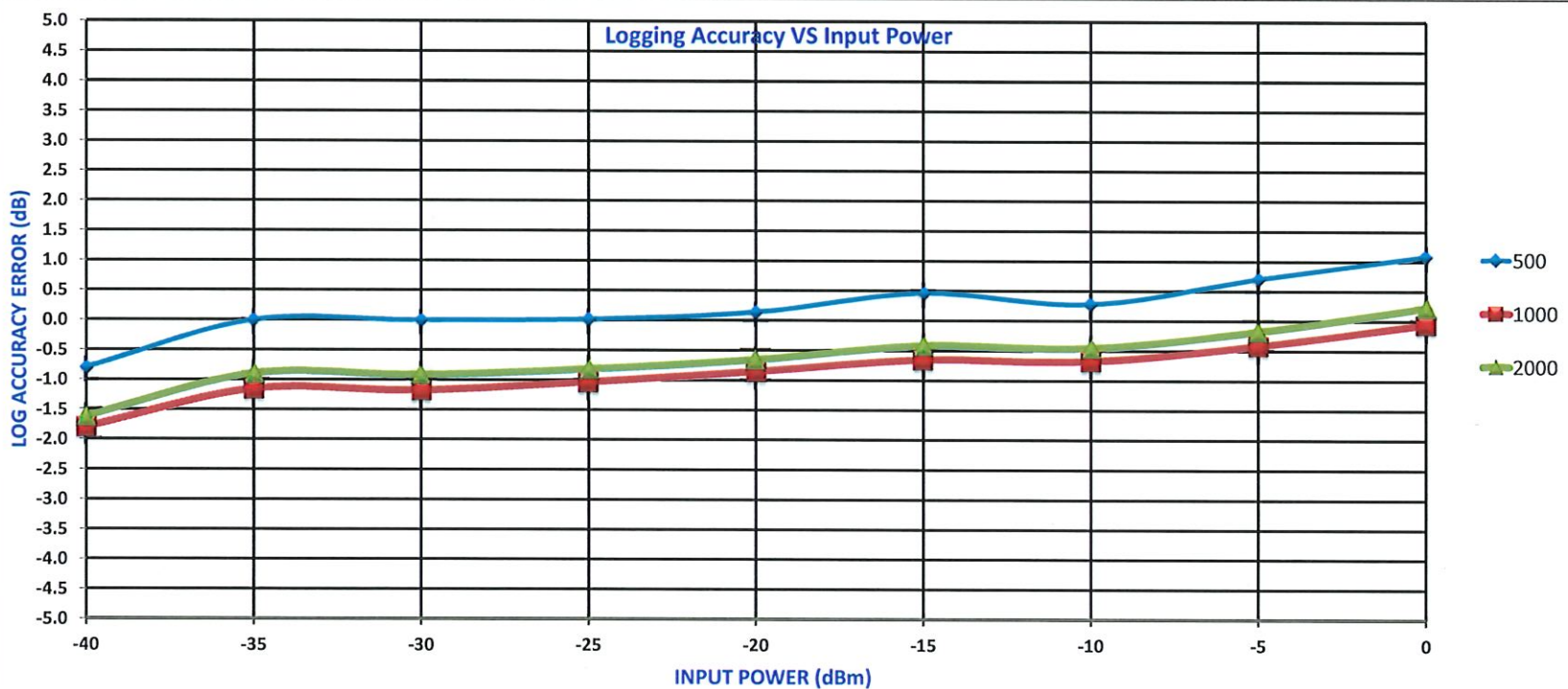
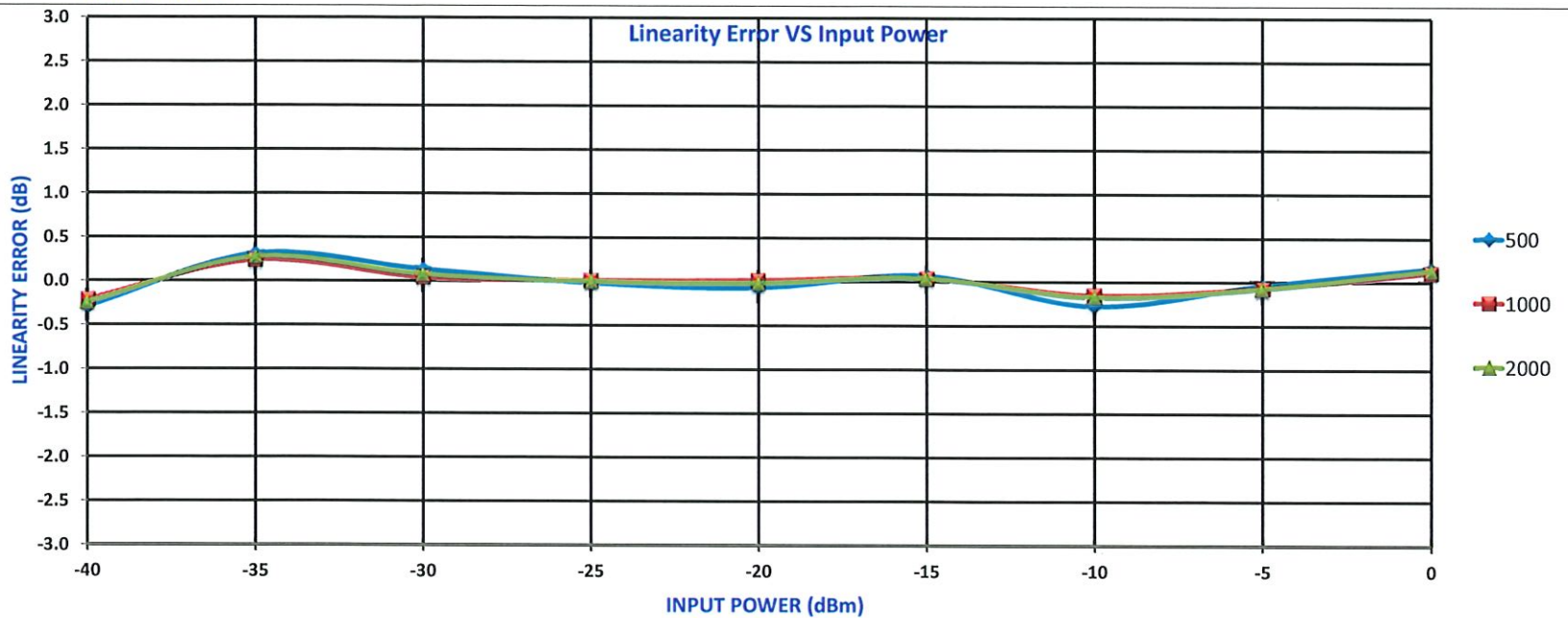
Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.23	-0.22
LOGGING ACCURACY (dB)	-0.06	-1.80

Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.27	-0.25
LOGGING ACCURACY (dB)	0.22	-1.62

Logging Linearity vs Frequency	Error(dB)	
	MAX	MIN
TOTAL LOG LINEARITY (dB)	0.31	-0.29

Logging Accuracy vs Frequency	Error(dB)	
	MAX	MIN
TOTAL LOGGING ACCURACY (dB)	1.08	-1.80

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LOG TRANSFER WITH FREQUENCY
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 TEST TEMP: -40C

Graph #2

DC Offset= 0.121 V



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Frequency		
0.5 GHz	INTERCEPT (mV)	2359
	SLOPE (mV/dB)	48.5

1 GHz	INTERCEPT (mV)	2312
	SLOPE (mV/dB)	48.5

2 GHz	INTERCEPT (mV)	2323
	SLOPE (mV/dB)	48.5

Flatness +/- dB	
Max Video Output Volts	
Min Video Output Volts	

	-40	-35	-30	-25	-20	-15	-10	-5	0
	429	650	899	1143	1384	1641	1880	2112	2357
	11	-10	-4	-3	-4	10	6	-4	-2
	0.23	-0.22	-0.08	-0.06	-0.09	0.21	0.13	-0.09	-0.04
	1.58	1.00	0.98	0.86	0.68	0.82	0.60	0.24	0.14
	383	609	852	1092	1339	1600	1836	2074	2300
	9	-7	-6	-8	-4	15	9	4	-12
	0.20	-0.14	-0.13	-0.17	-0.08	0.31	0.18	0.09	-0.25
	0.66	0.18	0.04	-0.16	-0.22	0.00	-0.28	-0.52	-1.00
	394	618	864	1104	1349	1610	1847	2083	2314
	10	-8	-5	-7	-5	14	8	2	-9
	0.21	-0.17	-0.10	-0.15	-0.10	0.29	0.17	0.04	-0.20
	0.38	0.36	0.33	0.08	-0.02	0.20	-0.06	-0.34	-0.72
	0.50	0.40	0.50	0.50	0.50	0.40	0.50	0.40	0.60
	0.43	0.65	0.90	1.14	1.38	1.64	1.88	2.11	2.36
	0.38	0.61	0.85	1.09	1.34	1.60	1.84	2.07	2.30

RF Input Power (dBm)

Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.23	-0.22
LOGGING ACCURACY (dB)	1.58	0.14

Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.31	-0.25
LOGGING ACCURACY (dB)	0.66	-1.00

Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.29	-0.20
LOGGING ACCURACY (dB)	0.88	-0.72

Logging Linearity vs Frequency	Error(dB)	
TOTAL LOG LINEARITY (dB)	0.31	-0.25

Logging Accuracy vs Frequency	Error(dB)	
TOTAL LOGGING ACCURACY (dB)	1.58	-1.00

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