MODEL: GMDA-D1005-08R11R44 **S/N: PL54835** **DATE: 8/29/2025**

NOTE: ALL VIDEO OUTPUT MEASUREMENTS ARE MADE WITH 75 OHMS VIDEO LOAD

1. TSS

Specification: -65dBm Maximum
Measurement @ 1.44GHz, 2uS PW, 100KHz PRF

TSS -67.9 dBm Pass ___X___ Fail _____

2. LOG SLOPE AND LINEARITY

Video Load Measured: 74.9 Ohms
Video Cable Measured: 0.3 Ohms

Specification: Log slope 25+/- 1mV / dB

Log Linearity +/-1.0 dB Max. @ 25 deg C (Room Temp)
+/-1.5 dB Over Temperature

Measurement: Logging Range = -60dBm to +10dBm

@ 25 deg C (See attached Plot)

Frequency (GHz)	Log Slope (mV / dB)	Log linearity (dB)	Pass	Fail
0.81	24.8	-0.37	X	
1.125	24.8	-0.27	X	
1.44	24.9	0.34	X	

@ -54 deg C (See attached Plot)

Frequency (GHz)	Log Slope (mV / dB)	Log linearity (dB)	Pass	Fail
0.81	25.2	0.69	X	
1.125	25.2	-0.69	X	
1.44	25.1	-0.70	X	

@ +85 deg C (See attached Plot)

Frequency (GHz)	Log Slope (mV / dB)	Log linearity (dB)	Pass	Fail
0.81	24.6	0.54	X	
1.125	24.6	-0.57	X	
1.44	24.7	-0.44	X	

MODEL: GMDA-D1005-08R11R44 **S/N: PL54835** **DATE:** **8/29/2025**

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3. FLATNESS

Specification: 50mV Max
Measurement: @-35dBm Input

System Flatness = 0.19 dB (See attached plot)
Vp-p = 21 mV (See attached plot)
Flatness = Vp-p – (System Flatness x 25)
Flatness = 16.2 mV Pass ___X___ Fail _____

4. MAXIMUM OUTPUT VOLTAGE

Specification: +2.5v Max
Measurement: 1.884v Pass ___X___ Fail _____

5. INPUT VSWR

Specification: 2.0:1 Max
Measurement @-20dBm input (See attached plot)
VSWR: 1.620:1 Pass ___X___ Fail _____

6. VIDEO RISE TIME

Specification: 30ns Max
Measurement: Freq = 1.125 GHz, RF Input –35dBm, PW = 1us, PRF 100KHz

Rise Time: 15.6ns Pass ___X___ Fail _____

7. LEADING AND TRAILINGE EDGE

Specification: Per figure 5 on product feature 27041580

Pass___X___ Fail_____

8. REVERSE SHOOT AND SLOPE REVERSE

Specification: Per figure 6 on product feature 27041580

Pass___X___ Fail_____

9. RECOVERY TIME

Specification: 500ns Max
Measurement: 103.6ns Pass ___X___ Fail _____

MODEL: GMDA-D1005-08R11R44 **S/N: PL54835** **DATE:** **8/29/2025**

NOTE: ALL VIDEO OUTPUT MEASUREMENTS ARE MADE WITH 75 OHMS VIDEO LOAD

10. THROUGHPUT TIME

Specification: 30ns Max

Measurement: Freq 1.125 GHz, PW = 100ns, PRF = 100KHz

-35dBm Input: 15ns Pass X Fail _____

11. OFFSET VOLTAGE

Specification: +/- 50mV Max

25 C Measurement: 7 mV Pass X Fail _____

-54 C Measurement: -44 mV Pass X Fail _____

85 C Measurement: 24 mV Pass X Fail _____

12. DC POWER

Specification: +12V to +15.5V, 300mA Max

-12V to +15.5V, 150mA Max

Measurement: +15.5V @ 150 mA Pass X Fail _____

-15.5V @ 60 mA Pass X Fail _____

13. VISUAL AND MECHANICAL INSPECTION

Specification: Per PMI product feature 27041580

Finish: Pass X Fail _____

Dimensions: Pass X Fail _____

Marking and Identification: Pass X Fail _____

Torque Cover Screws to 1.2 in/lb. Inspect screws per criteria in Figure 1-A. on Traveler

TBD: Pass X Fail _____

Tested by: Joshua Monley. Date: 8/29/2025

QA: PMI QA3 K. Klunenz Date: 9.29.25

PMI	SIZE A	CAGE CODE 71A34	DWG. NO. 27641800	REVISION A2
	SCALE			SHEET 4 OF 10

LOG TRANSFER WITH FREQUENCY
MODEL: GMDA-D1005-08R11R44
TESTED BY: Joshua Monley.
TEST DATE: 08/28/2025
SERIAL NO: PL54835
TEST TEMP: +25C

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway, Suite 1
El Dorado Hills, CA 95762
Phone: 916-542-1401 Fax: 301-662-1731
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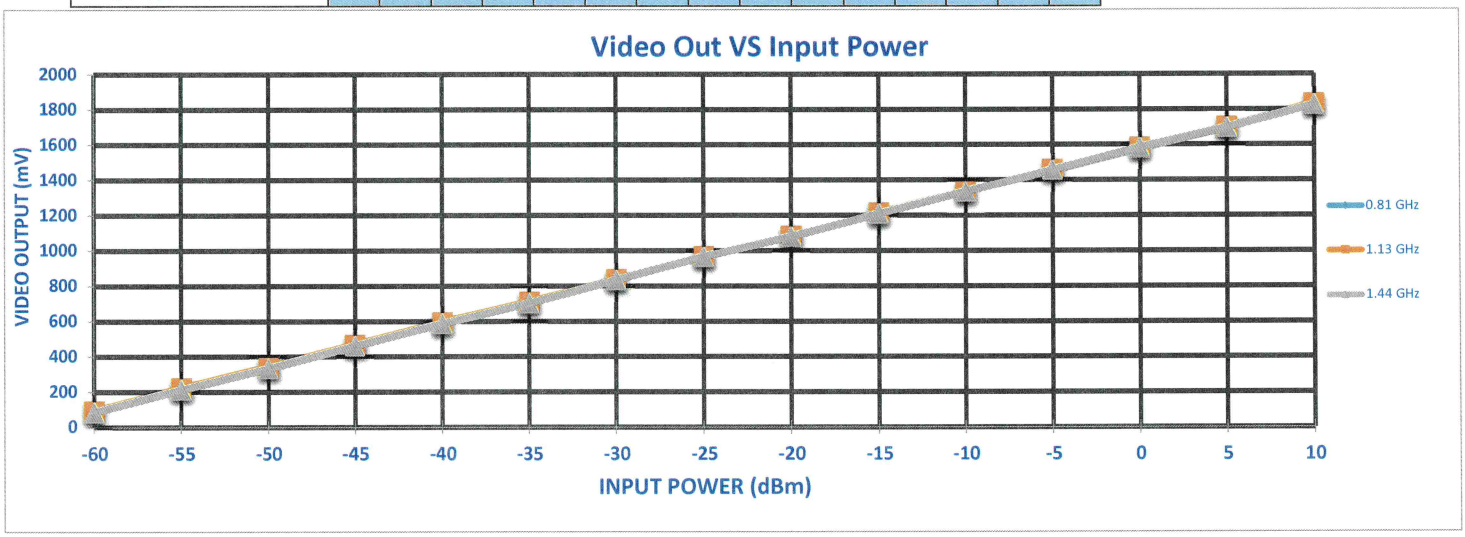
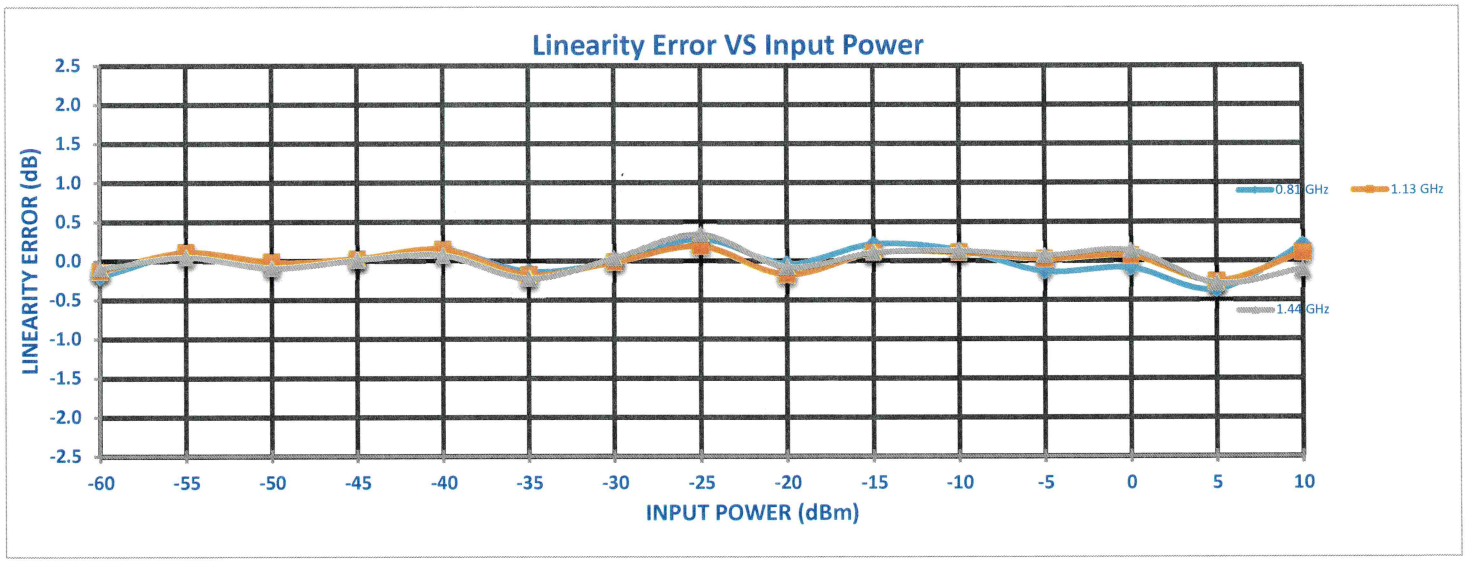
Vos= -0.007

Frequency			-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)
0.81 GH	INTERCEPT (mV)	1575	84	215	335	461	588	705	832	963	1079	1209	1331	1448	1573	1690	1828	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-5	2	-2	0	4	-3	0	7	-1	5	3	-3	-2	-9	5	Error (mV)
			-0.20	0.08	-0.07	0.01	0.14	-0.14	-0.01	0.28	-0.04	0.21	0.14	-0.14	-0.09	-0.37	0.20	LINEARITY ERROR (dB)
1.13 GH	INTERCEPT (mV)	1580	88	218	339	464	591	707	835	964	1079	1210	1334	1456	1581	1697	1830	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-3	3	0	1	4	-4	-1	4	-5	2	2	0	1	-7	2	Error (mV)
			-0.14	0.10	-0.02	0.02	0.14	-0.18	-0.02	0.18	-0.18	0.10	0.10	0.02	0.06	-0.27	0.09	LINEARITY ERROR (dB)
1.44 GH	INTERCEPT (mV)	1579	83	211	332	459	585	702	833	965	1079	1208	1333	1456	1582	1696	1825	Measured Value (mV)
	SLOPE (mV/dB)	24.9	-3	1	-2	0	2	-6	1	8	-2	3	3	2	3	-7	-3	Error (mV)
			-0.10	0.04	-0.10	0.01	0.07	-0.23	0.03	0.34	-0.08	0.10	0.12	0.07	0.13	-0.29	-0.11	LINEARITY ERROR (dB)
	Flatness +/-dB		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0.1	0.2	0.2	0.1	0.1	





PMI	SIZE A	CAGE CODE 71A34	DWG. NO. 27641800	REVISION A2
	SCALE			SHEET 5 OF 10

LOG TRANSFER WITH FREQUENCY
MODEL: GMDA-D1005-08R11R44
TESTED BY: Joshua Monley.
TEST DATE: 08/28/2025
SERIAL NO: PL54835
TEST TEMP: -54C

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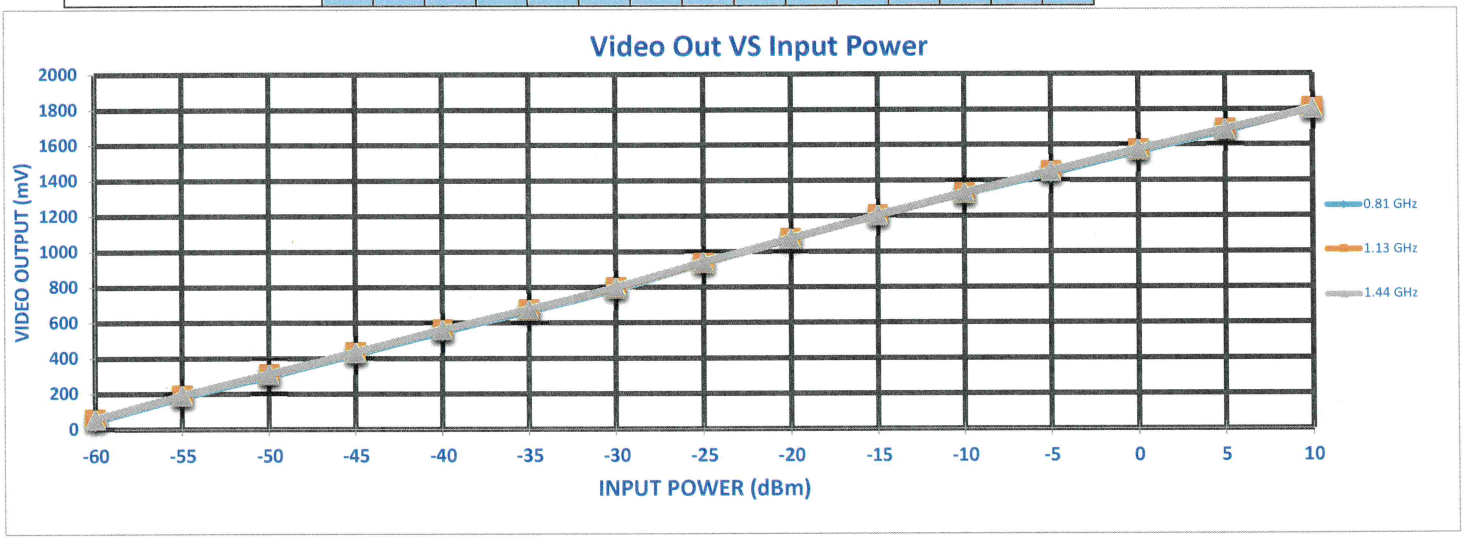
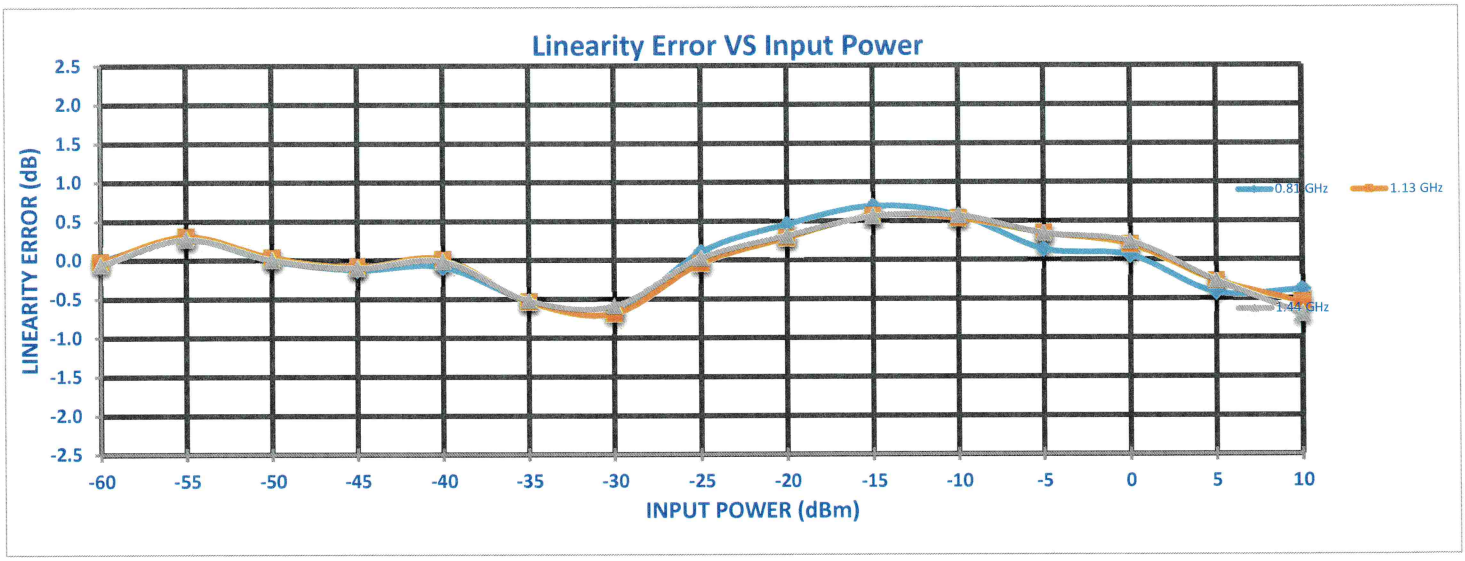
Vos= -0.044

Frequency			-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)
0.81 GH	INTERCEPT (mV)	1559	46	179	298	421	548	663	785	931	1066	1198	1321	1436	1560	1674	1801	Measured Value (mV)
	SLOPE (mV/dB)	25.2	0	7	0	-3	-2	-13	-17	3	11	17	14	3	1	-11	-10	Error (mV)
			0.00	0.27	-0.01	-0.13	-0.09	-0.53	-0.69	0.10	0.46	0.69	0.57	0.13	0.05	-0.43	-0.39	LINEARITY ERROR (dB)
1.13 GH	INTERCEPT (mV)	1566	56	190	309	432	560	672	794	936	1070	1203	1328	1449	1571	1685	1804	Measured Value (mV)
	SLOPE (mV/dB)	25.2	-1	8	1	-2	0	-14	-17	-1	7	14	13	9	5	-7	-14	Error (mV)
			-0.02	0.30	0.03	-0.08	0.01	-0.54	-0.69	-0.05	0.28	0.56	0.53	0.34	0.19	-0.28	-0.55	LINEARITY ERROR (dB)
1.44 GH	INTERCEPT (mV)	1567	57	191	310	433	561	674	798	939	1072	1204	1330	1450	1573	1686	1801	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-2	7	0	-3	0	-13	-15	0	8	14	14	9	6	-7	-18	Error (mV)
			-0.06	0.27	0.00	-0.11	-0.02	-0.52	-0.59	0.02	0.31	0.56	0.57	0.34	0.23	-0.28	-0.70	LINEARITY ERROR (dB)
	Flatness +/-dB		0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.1	0.1	0.2	0.3	0.3	0.2	0.1	





PMI	SIZE A	CAGE CODE 71A34	DWG. NO. 27641800
	SCALE		SHEET 6 OF 10

REVISION A2

LOG TRANSFER WITH FREQUENCY
MODEL: GMDA-D1005-08R11R44
TESTED BY: Joshua Monley.
TEST DATE: 08/28/2025
SERIAL NO: PL54835
TEST TEMP: +85C

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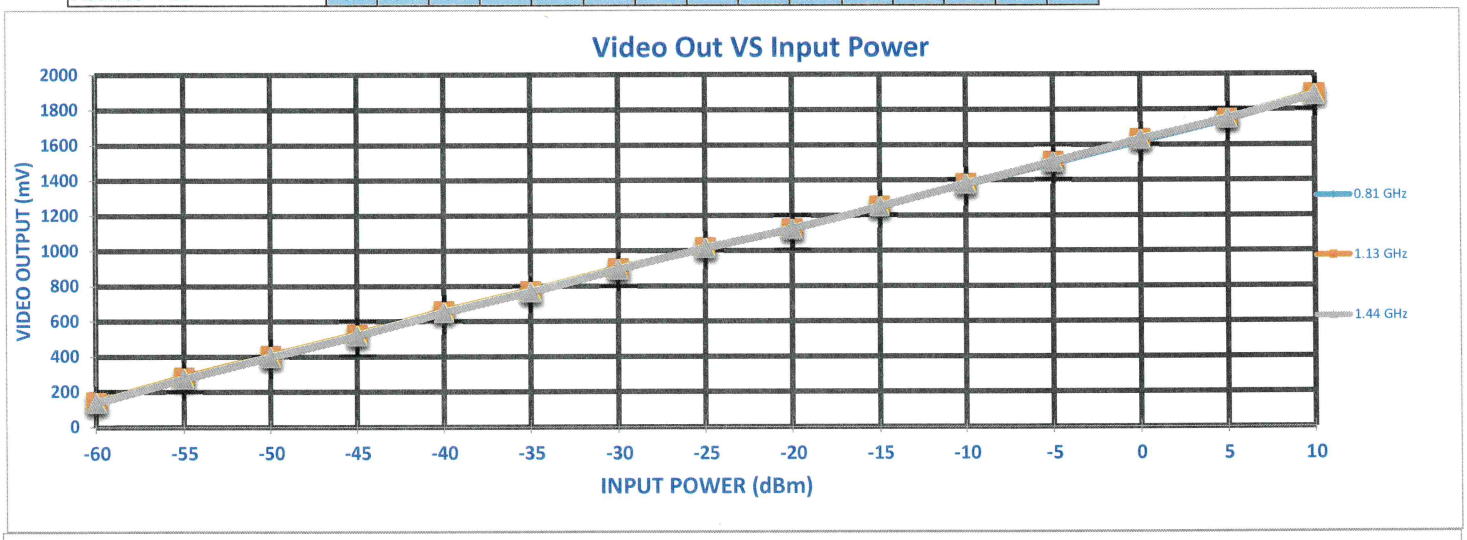
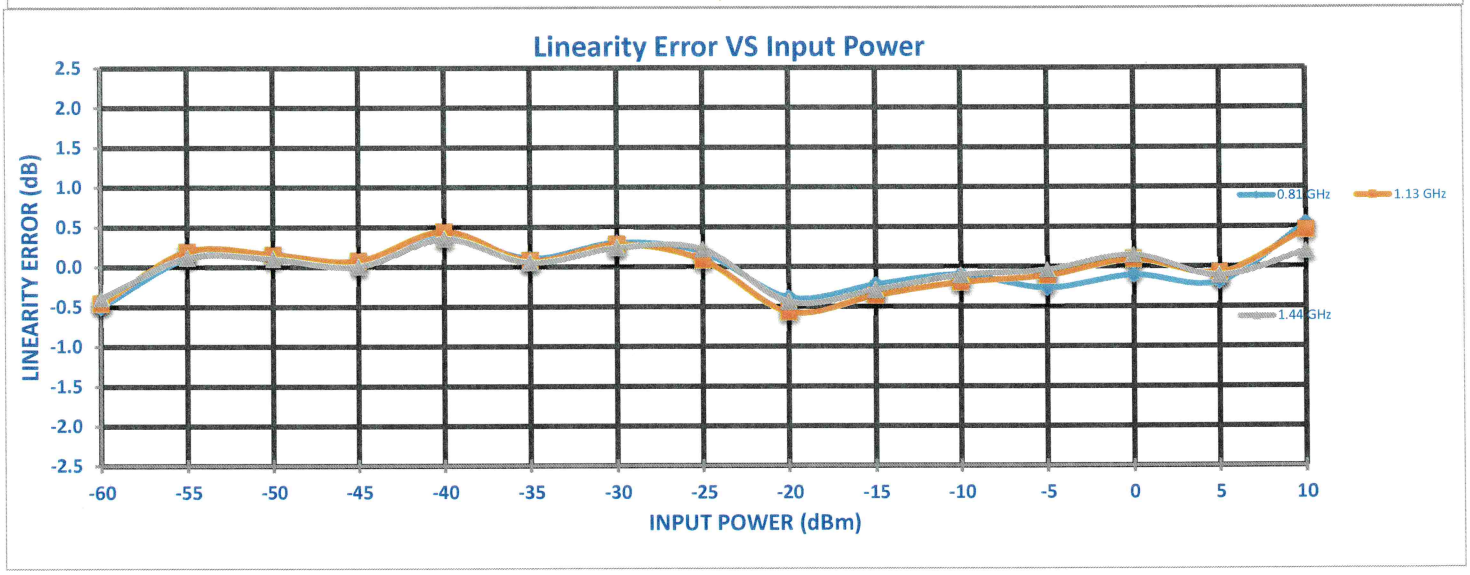
Vos= 0.024

Frequency			-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)
0.81 GH	INTERCEPT (mV)	1621	132	270	394	515	646	762	890	1010	1119	1246	1372	1491	1618	1739	1880	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-12	3	4	2	9	2	7	4	-10	-6	-3	-7	-3	-5	13	Error (mV)
			-0.50	0.11	0.14	0.06	0.39	0.10	0.30	0.18	-0.39	-0.23	-0.11	-0.27	-0.11	-0.19	0.54	LINEARITY ERROR (dB)
1.13 GH	INTERCEPT (mV)	1627	140	279	401	522	654	768	896	1014	1121	1249	1376	1501	1629	1748	1884	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-11	5	4	2	11	2	7	2	-14	-9	-5	-3	2	-2	11	Error (mV)
			-0.46	0.19	0.15	0.07	0.44	0.07	0.28	0.08	-0.57	-0.37	-0.20	-0.12	0.08	-0.08	0.45	LINEARITY ERROR (dB)
1.44 GH	INTERCEPT (mV)	1626	136	272	395	516	648	764	892	1015	1122	1249	1377	1502	1630	1747	1878	Measured Value (mV)
	SLOPE (mV/dB)	24.7	-10	3	2	0	9	1	6	5	-11	-7	-3	-1	4	-3	5	Error (mV)
			-0.40	0.11	0.10	0.00	0.35	0.05	0.24	0.22	-0.44	-0.30	-0.11	-0.04	0.14	-0.12	0.19	LINEARITY ERROR (dB)
Flatness +/-dB			0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	

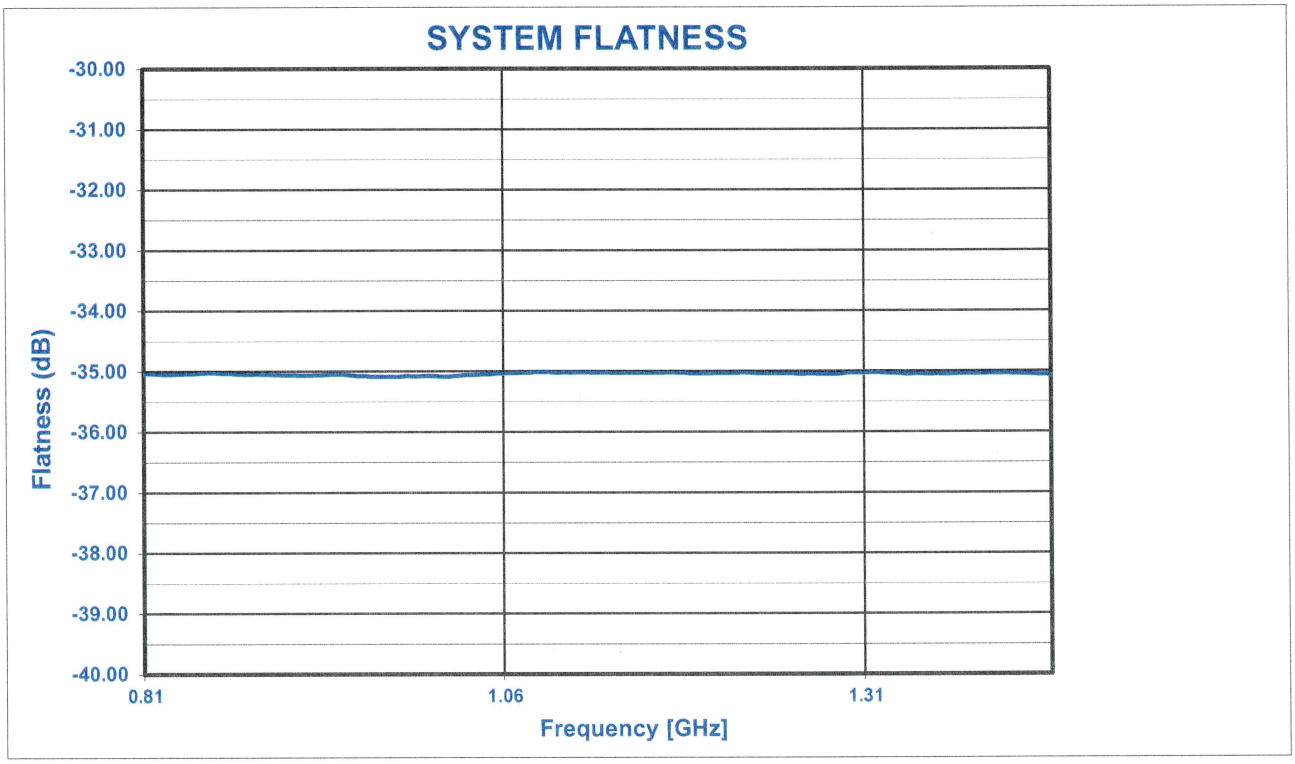




SUMMARY TEST DATA
ON
HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54835

Temperature: +25C



PMI	SIZE A	CAGE CODE 71A34	DWG. NO. 27641800	REVISION A2
	SCALE			SHEET 8 OF 10

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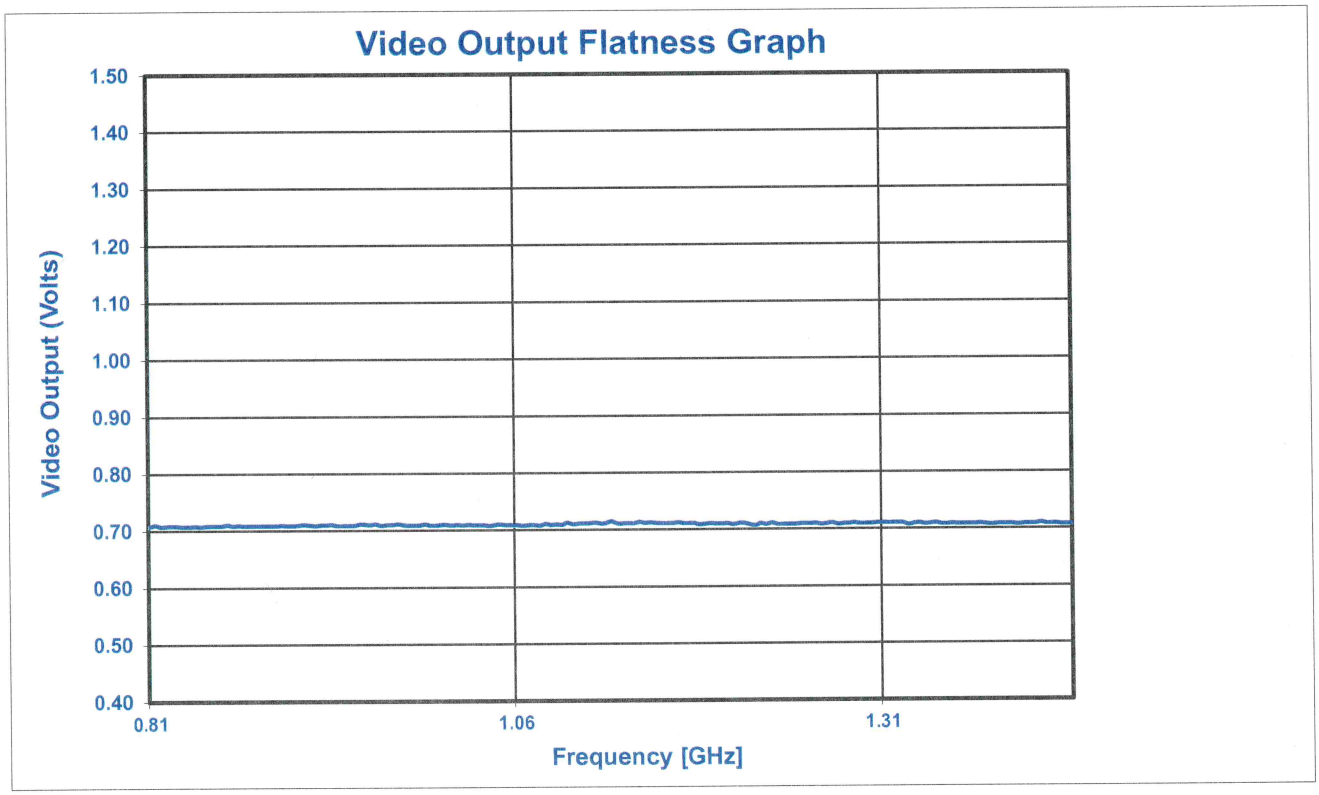
SUMMARY TEST DATA
ON
HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54835

Temperature: +25C



	SIZE	CAGE CODE	DWG. NO.	REVISION A2
PMI	A	71A34	27641800	
	SCALE			SHEET 9 OF 10

4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
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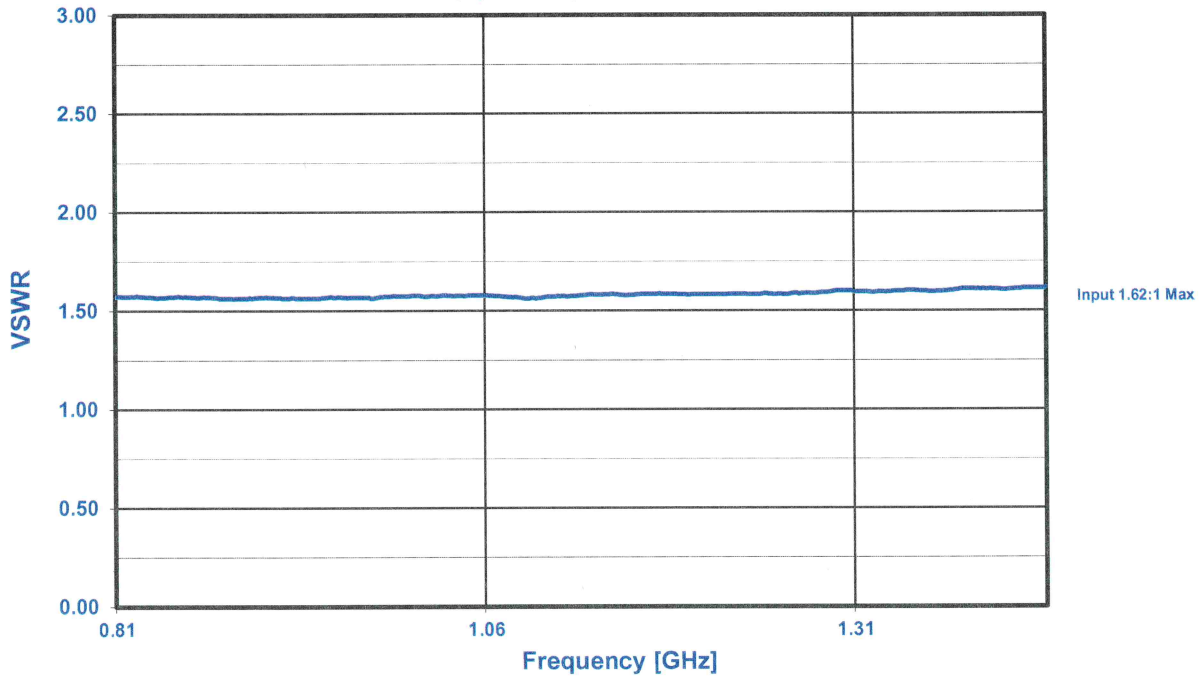
SUMMARY TEST DATA
ON
HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54835

Temperature: +25C

VSWR GRAPH



	SIZE	CAGE CODE	DWG. NO.	REVISION A2
PMI	A	71A34	27641800	
	SCALE			SHEET 10 OF 10

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