



MODEL: GMDA-D1005-08R11R44

S/N: PL54838

DATE:

8/29/2025

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

3. FLATNESS

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

System Flatness = 0.19 dB (See attached plot)

Vp-p = 53 mV (See attached plot)

Flatness = Vp-p - (System Flatness x 25)

Flatness = 48.175 mV Pass X Fail \_\_\_\_\_

4. MAXIMUM OUTPUT VOLTAGE

Specification: +2.5v Max

Measurement: 1.888v Pass X Fail \_\_\_\_\_

5. INPUT VSWR

Specification: 2.0:1 Max

Measurement @-20dBm input ( See attached plot)

VSWR: 1.565:1 Pass X Fail \_\_\_\_\_

6. VIDEO RISE TIME

Specification: 30ns Max

Measurement: Freq = 1.125 GHz, RF Input -35dBm, PW = 1us, PRF 100KHz

Rise Time: 17.8ns Pass X Fail \_\_\_\_\_

7. LEADING AND TRAILING 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: 132ns Pass X Fail \_\_\_\_\_

	SIZE	CAGE CODE	DWG. NO.	REVISION
	A	71A34	27641800	A2
	SCALE			SHEET 3 OF 10

MODEL: GMDA-D1005-08R11R44

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DATE:

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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: -11 mV Pass X Fail       

-54 C Measurement: 4 mV Pass X Fail       

85 C Measurement: 18 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 K. Klumpp  
QA3

Date: 8-29-25

	SIZE	CAGE CODE	DWG. NO.	REVISION
	A	71A34	27641800	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: PL54838  
 TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES  
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 El Dorado Hills, CA 95762  
 Phone: 916-542-1401 Fax: 301-662-1731  
 Email: sales@pmi-rf.com | www.pmi-rf.com

Vos= -0.011

Frequency

-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
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RF Input Power (dBm)
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0.81 GH	INTERCEPT (mV)	1589
	SLOPE (mV/dB)	24.9

97	223	343	467	596	713	834	962	1087	1218	1339	1460	1591	1712	1845
3	5	0	-1	4	-4	-7	-4	-3	3	0	-4	2	-1	7
0.12	0.18	0.00	-0.02	0.15	-0.15	-0.29	-0.15	-0.13	0.12	-0.02	-0.16	0.10	-0.04	0.30

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

1.13 GH	INTERCEPT (mV)	1597
	SLOPE (mV/dB)	25.1

94	220	340	464	593	710	836	965	1089	1223	1347	1473	1603	1720	1849
5	5	0	-2	1	-7	-7	-3	-5	3	2	2	6	-2	1
0.20	0.21	-0.01	-0.07	0.06	-0.28	-0.27	-0.14	-0.20	0.13	0.07	0.08	0.26	-0.09	0.05

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

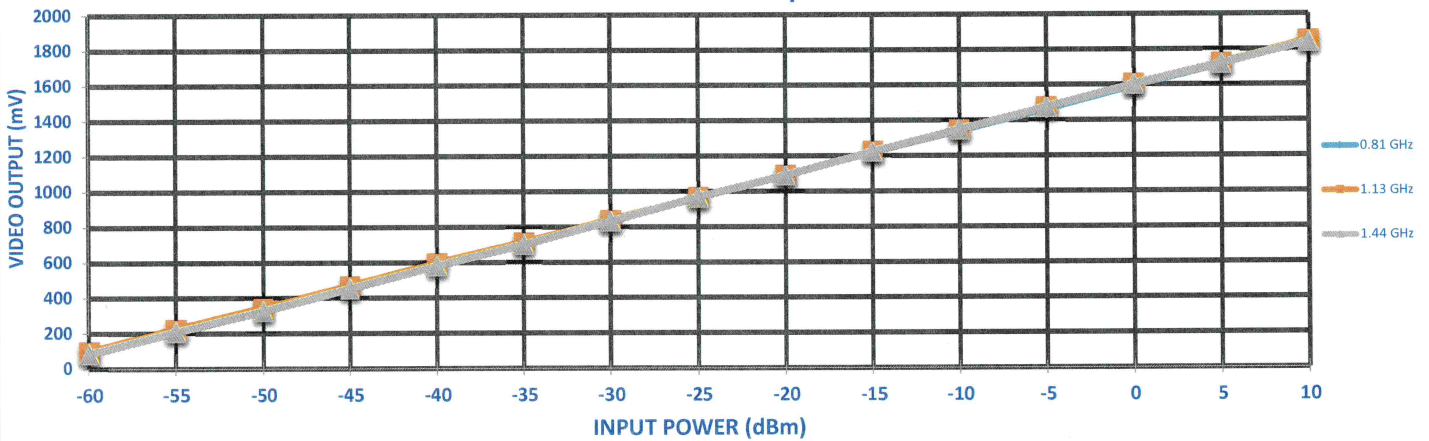
1.44 GH	INTERCEPT (mV)	1596
	SLOPE (mV/dB)	25.3

82	206	324	451	579	699	831	967	1089	1223	1348	1473	1602	1717	1841
7	4	-5	-4	-3	-10	-4	5	0	8	6	4	6	-5	-8
0.26	0.16	-0.19	-0.17	-0.12	-0.39	-0.18	0.19	0.01	0.30	0.23	0.16	0.26	-0.21	-0.31

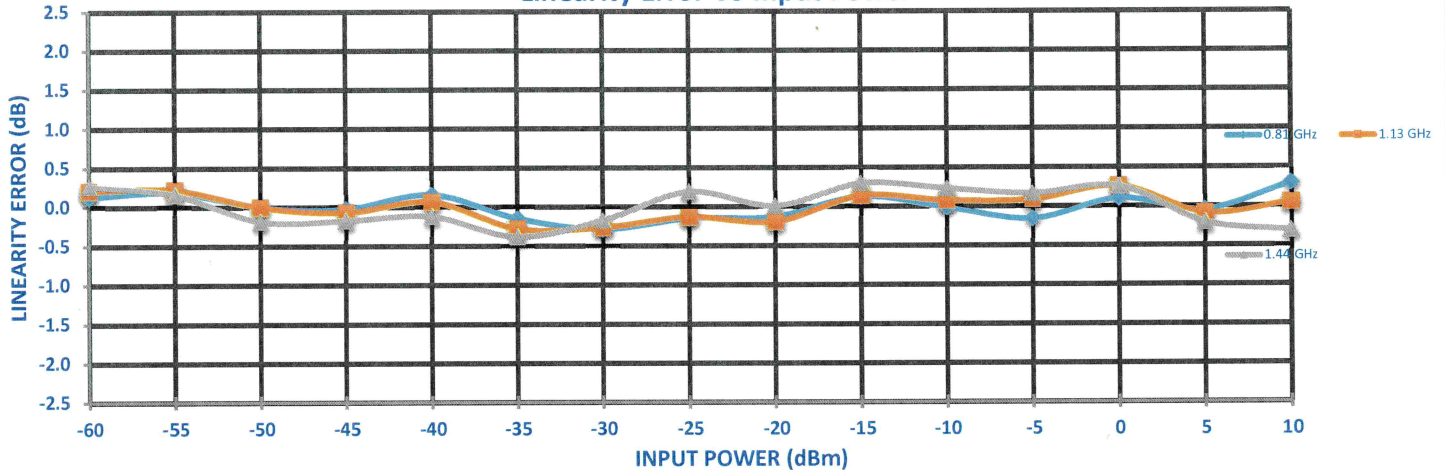
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

Flatness +/-dB	0.3	0.3	0.4	0.3	0.3	0.3	0.1	0.1	0	0.1	0.2	0.3	0.2	0.2	0.2
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Video Out VS Input Power



Linearity Error VS Input Power



SIZE  
A  
SCALE

CAGE CODE  
71A34

DWG. NO.  
27641800

REVISION A2

SHEET 5 OF 10

LOG TRANSFER WITH FREQUENCY  
 MODEL: GMDA-D1005-08R11R44  
 TESTED BY: Joshua Monley.  
 TEST DATE: 08/28/2025  
 SERIAL NO: PL54838  
 TEST TEMP: -54C



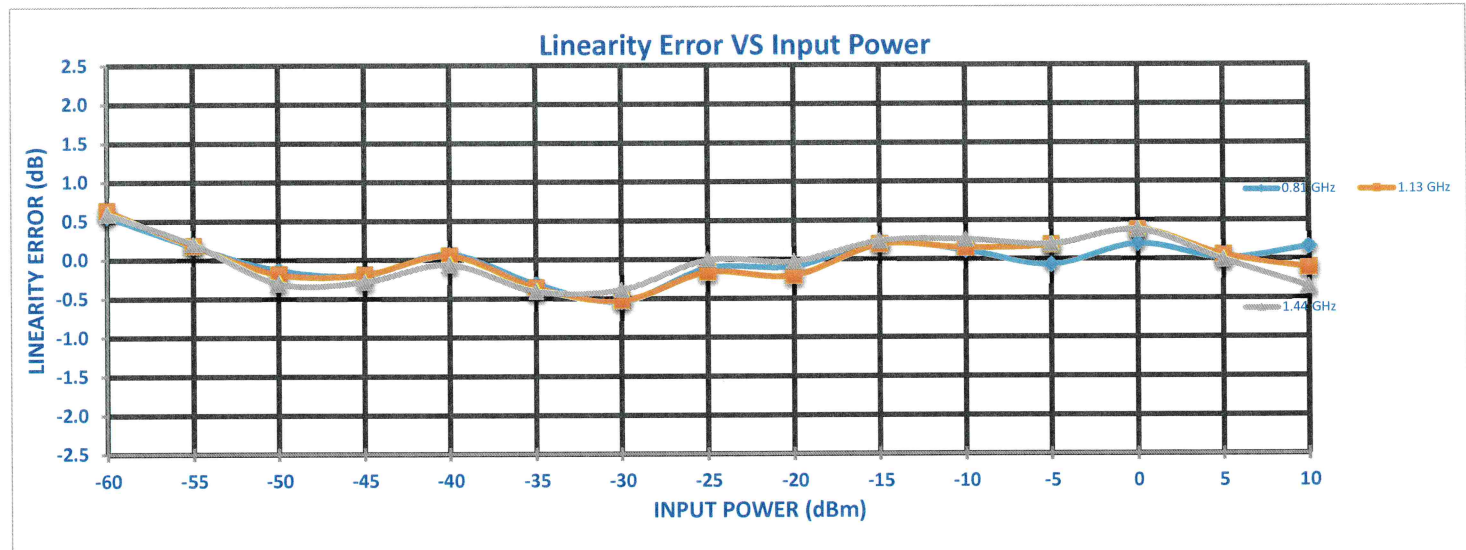
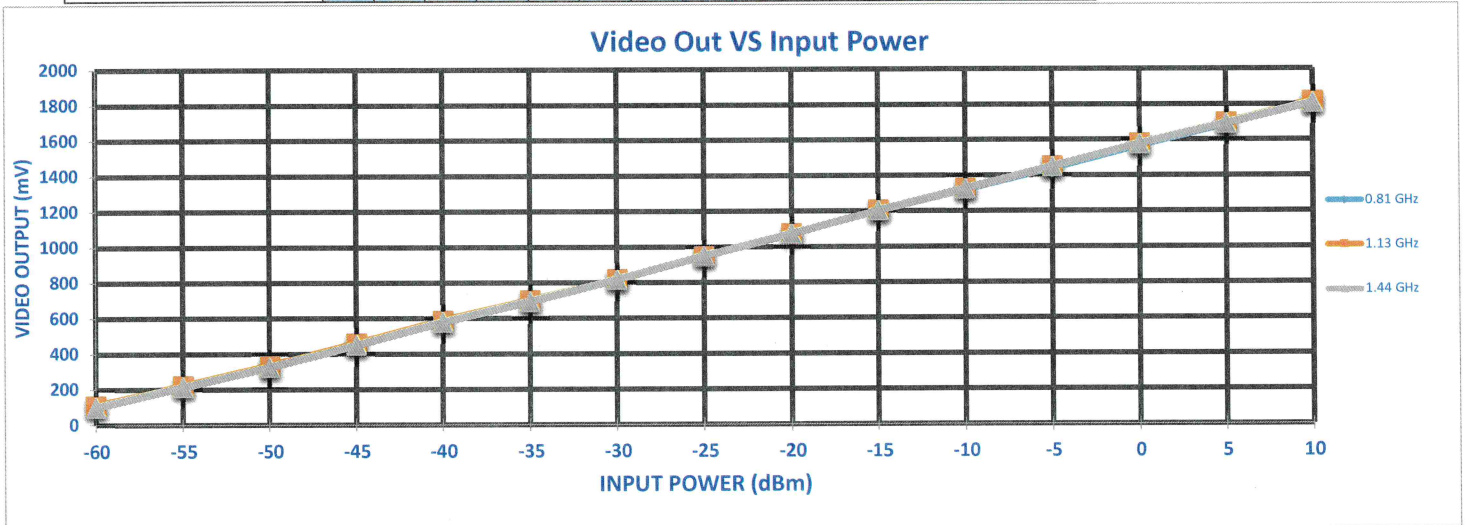
PLANAR MONOLITHICS INDUSTRIES  
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Vos= 0.004

Frequency

	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
<b>0.81 GH</b>	105	218	333	454	583	696	813	946	1069	1199	1319	1437	1566	1684	1810
INTERCEPT (mV)	14	4	-3	-5	2	-8	-13	-3	-2	5	3	-2	5	0	4
SLOPE (mV/dB)	0.56	0.17	-0.14	-0.20	0.07	-0.32	-0.54	-0.11	-0.09	0.21	0.11	-0.07	0.19	0.01	0.15
<b>1.13 GH</b>	106	218	332	455	584	697	816	948	1070	1203	1325	1449	1577	1692	1811
INTERCEPT (mV)	16	4	-5	-5	1	-9	-13	-4	-5	5	3	4	9	1	-3
SLOPE (mV/dB)	0.63	0.18	-0.19	-0.19	0.05	-0.37	-0.53	-0.17	-0.22	0.19	0.14	0.18	0.38	0.05	-0.12
<b>1.44 GH</b>	99	213	324	448	577	692	816	949	1072	1202	1326	1448	1576	1690	1805
INTERCEPT (mV)	15	5	-8	-7	-2	-10	-10	0	-1	6	6	5	9	0	-9
SLOPE (mV/dB)	0.59	0.20	-0.30	-0.28	-0.06	-0.41	-0.39	-0.01	-0.03	0.24	0.25	0.19	0.37	-0.01	-0.36
Flatness +/-dB	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1

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



	SIZE	CAGE CODE	DWG. NO.	REVISION
	A	71A34	27641800	A2
	SCALE			SHEET 6 OF 10

LOG TRANSFER WITH FREQUENCY  
 MODEL: GMDA-D1005-08R11R44  
 TESTED BY: Joshua Monley.  
 TEST DATE: 08/28/2025  
 SERIAL NO: PL54838  
 TEST TEMP: +85C



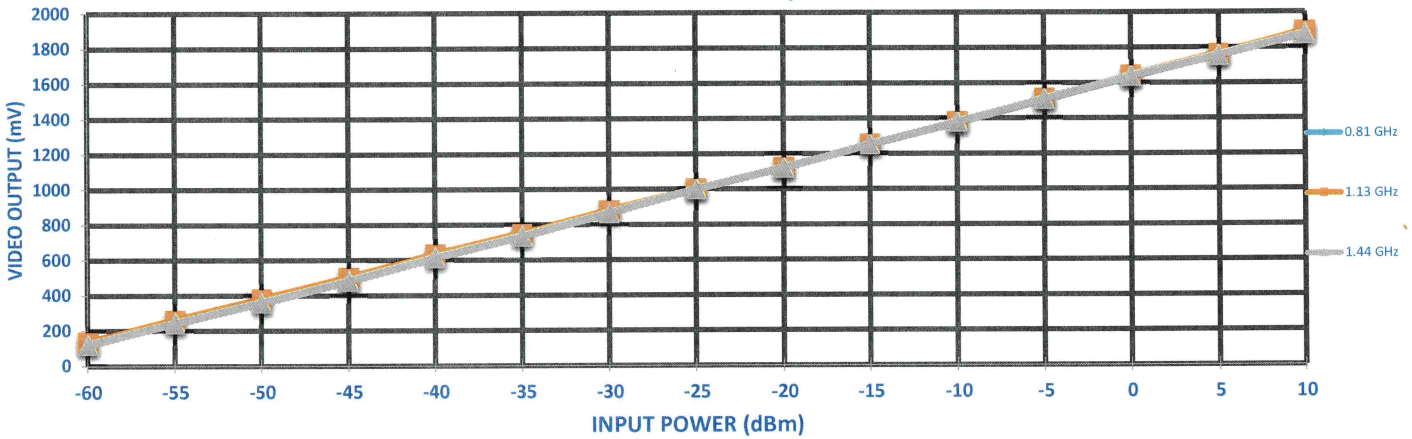
PLANAR MONOLITHICS INDUSTRIES  
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Vos= 0.018

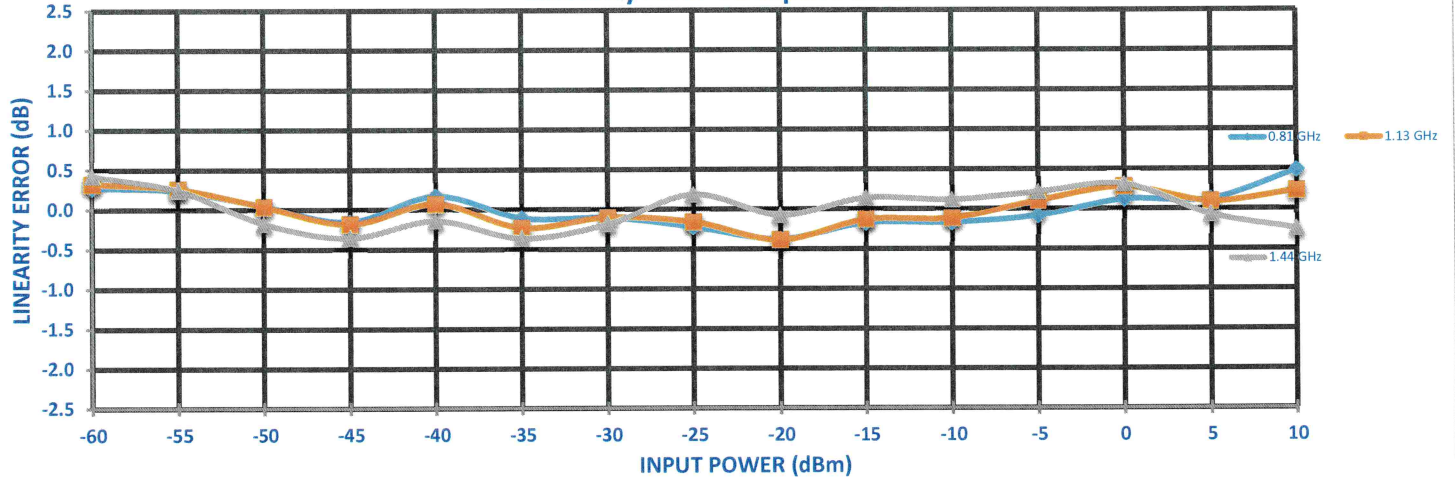
Frequency

		-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)
0.81 GH	INTERCEPT (mV)	133	257	377	497	630	748	873	995	1116	1246	1371	1498	1628	1753	1887	Measured Value (mV)
	SLOPE (mV/dB)	7	6	1	-4	4	-3	-3	-6	-10	-4	-4	-2	3	3	12	Error (mV)
		0.27	0.23	0.04	-0.16	0.17	-0.11	-0.11	-0.22	-0.38	-0.18	-0.17	-0.09	0.11	0.12	0.48	LINEARITY ERROR (dB)
		X															
1.13 GH	INTERCEPT (mV)	132	256	376	496	628	746	875	999	1119	1251	1377	1508	1638	1759	1888	Measured Value (mV)
	SLOPE (mV/dB)	8	6	1	-5	2	-6	-3	-4	-10	-3	-3	2	7	2	6	Error (mV)
		0.32	0.26	0.03	-0.19	0.06	-0.24	-0.10	-0.17	-0.39	-0.14	-0.12	0.09	0.27	0.09	0.22	LINEARITY ERROR (dB)
		X															
1.44 GH	INTERCEPT (mV)	119	241	357	479	611	732	863	999	1119	1251	1377	1506	1635	1752	1874	Measured Value (mV)
	SLOPE (mV/dB)	11	6	-4	-9	-4	-9	-5	5	-2	4	3	5	8	-2	-6	Error (mV)
		0.42	0.24	-0.18	-0.36	-0.14	-0.36	-0.19	0.18	-0.08	0.14	0.12	0.21	0.31	-0.07	-0.25	LINEARITY ERROR (dB)
		X															
Flatness +/-dB		0.3	0.3	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.3	

Video Out VS Input Power



Linearity Error VS Input Power



SIZE

A

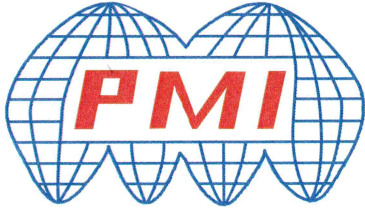
SCALE

CAGE CODE  
71A34

DWG. NO.  
27641800

REVISION A2

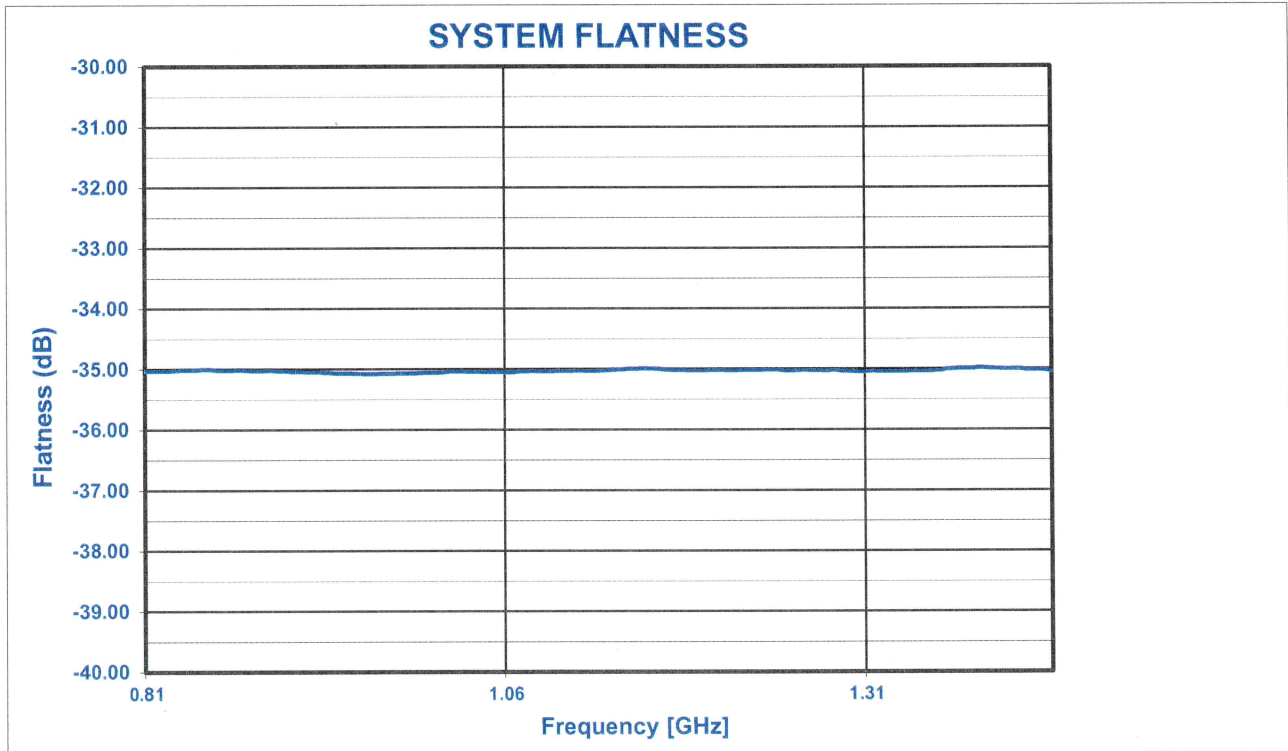
SHEET 7 OF 10




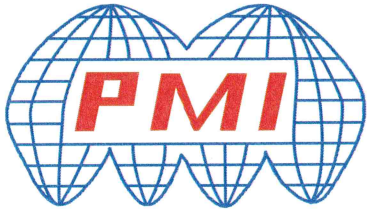
# SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44  
Serial Number: PL54838

Temperature: +25C



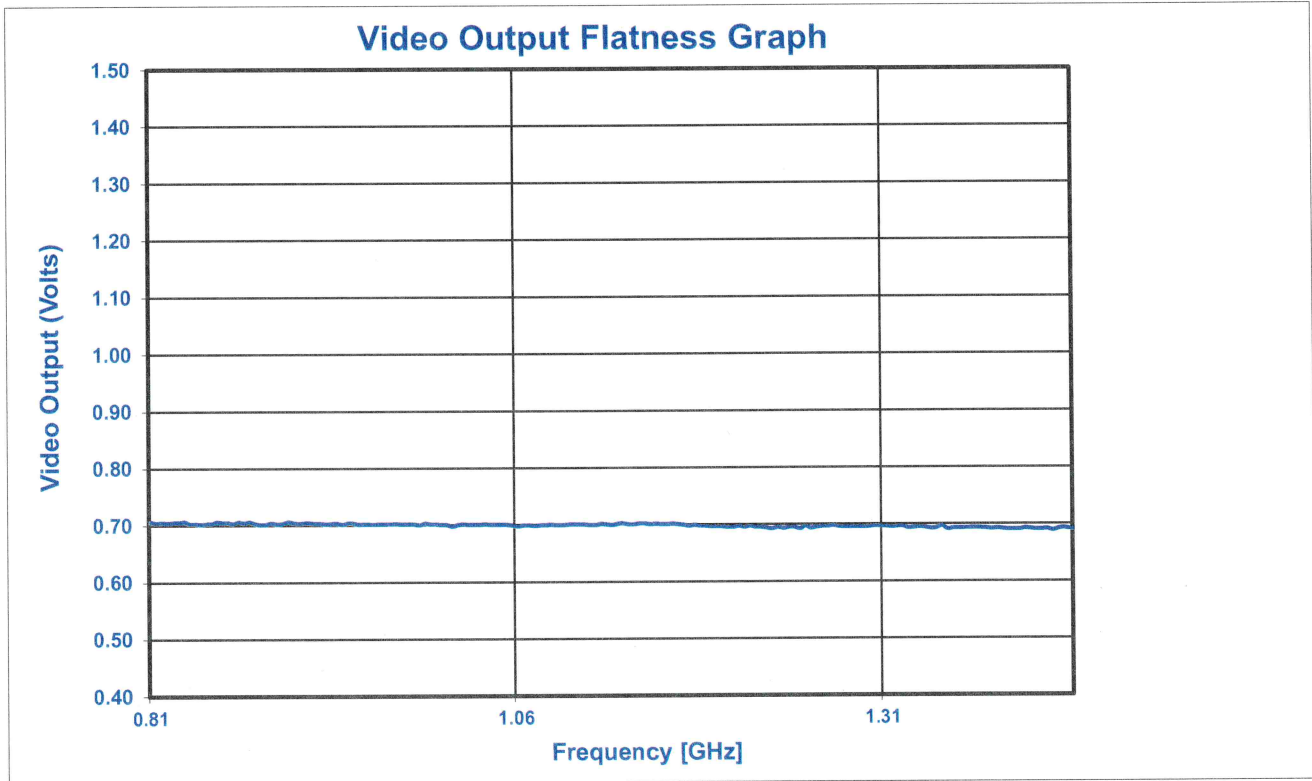
	SIZE	CAGE CODE	DWG. NO.	REVISION
	A	71A34	27641800	A2
	SCALE			SHEET 8 OF 10




# SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44  
Serial Number: PL54838

Temperature: +25C



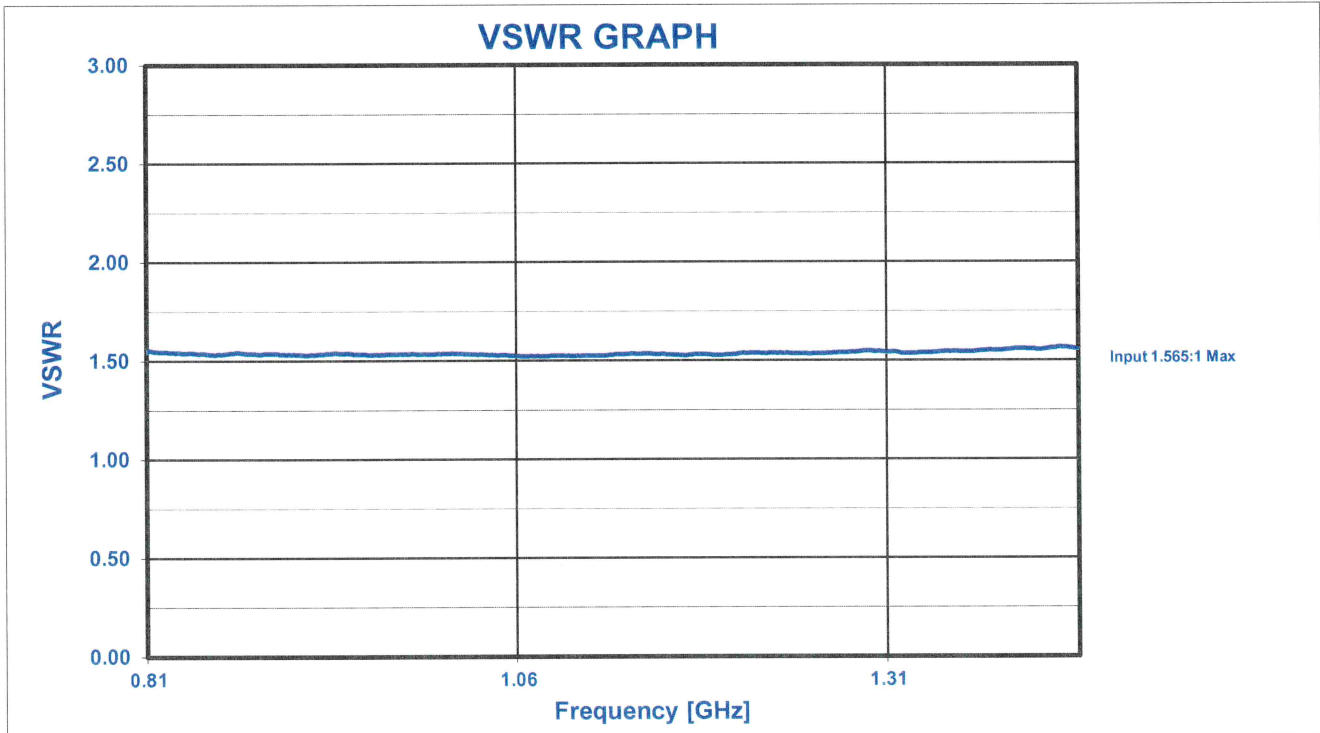
	SIZE	CAGE CODE	DWG. NO.	REVISION
	A	71A34	27641800	A2
	SCALE			SHEET 9 OF 10




# SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44  
Serial Number: PL54838

Temperature: +25C



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