



MODEL: GMDA-D1005-08R11R44

S/N: PL54830

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 = 0.22 dB (See attached plot)

Vp-p = 31 mV (See attached plot)

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

Flatness = 25.575 mV Pass X Fail \_\_\_\_\_

4. MAXIMUM OUTPUT VOLTAGE

Specification: +2.5v Max

Measurement: 1.901v Pass X Fail \_\_\_\_\_

5. INPUT VSWR

Specification: 2.0:1 Max

Measurement @-20dBm input ( See attached plot)

VSWR: 1.539:1 Pass X Fail \_\_\_\_\_

6. VIDEO RISE TIME

Specification: 30ns Max

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

Rise Time: 18.8ns 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: 111.8ns Pass X Fail \_\_\_\_\_

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

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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: 13ns Pass X Fail \_\_\_\_\_

11. OFFSET VOLTAGE

Specification: +/- 50mV Max

25 C Measurement: 5 mV Pass X Fail \_\_\_\_\_

-54 C Measurement: -6 mV Pass X Fail \_\_\_\_\_

85 C Measurement: 35 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. M. Lawrence

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: PL54830  
 TEST TEMP: +25C

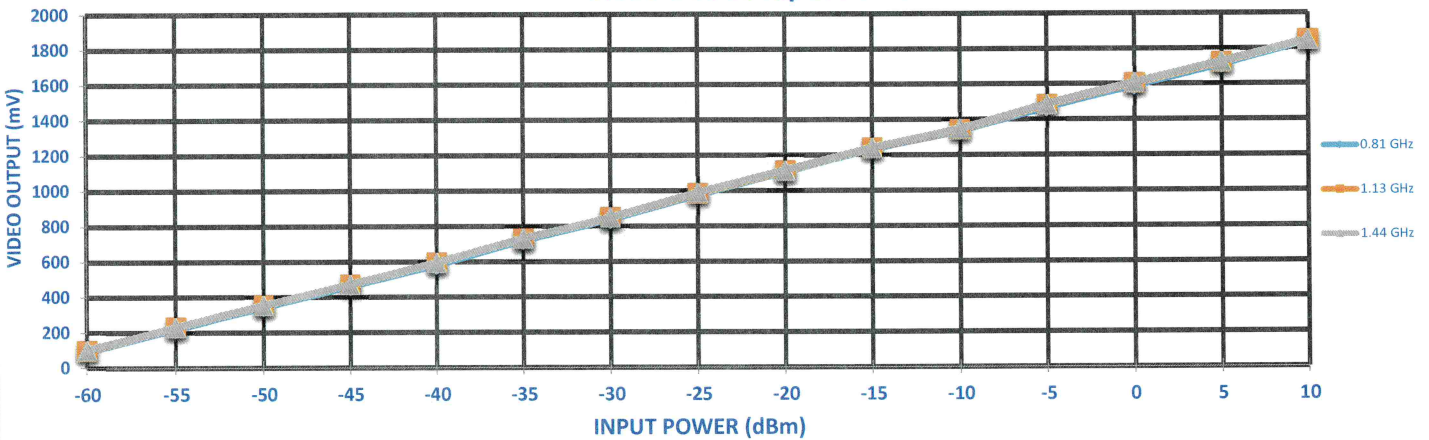


PLANAR MONOLITHICS INDUSTRIES  
 4921 Robert J. Mathews Parkway, Suite 1  
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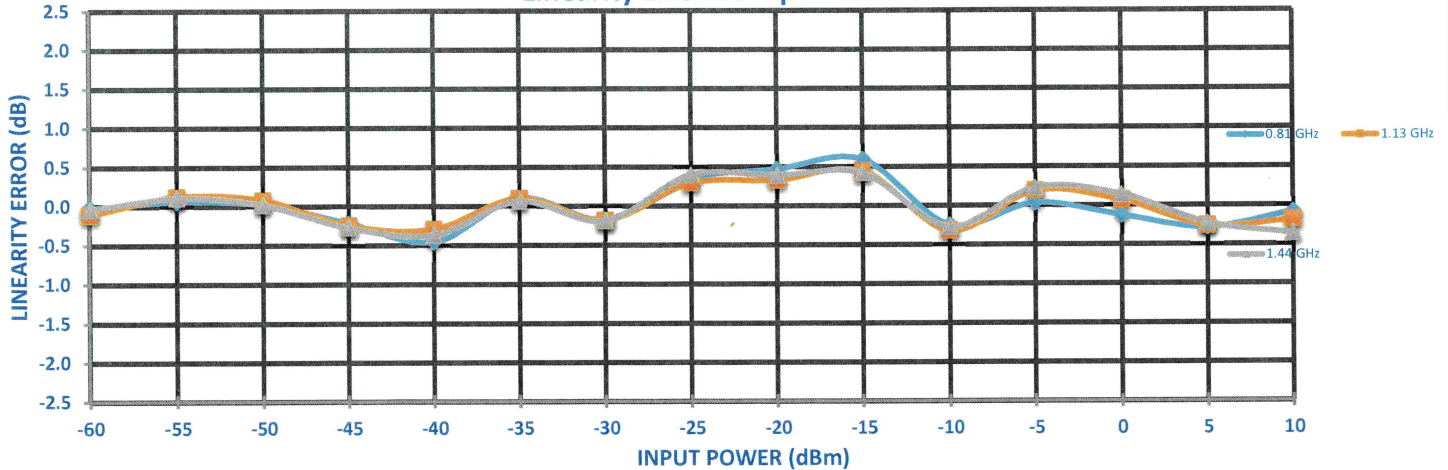
Vos= 0.005

Frequency		-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)	
0.81 GHz	INTERCEPT (mV)	1591	218	342	461	580	719	837	975	1103	1231	1335	1467	1588	1709	1839	Measured Value (mV)	
	SLOPE (mV/dB)	25.0	-1	1	-5	-11	3	-4	9	12	15	-6	1	-3	-7	-2	Error (mV)	
			-0.02	0.06	0.02	-0.22	-0.46	0.10	-0.17	0.35	0.47	0.59	-0.25	0.03	-0.13	-0.29	-0.08	LINEARITY ERROR (dB)
1.13 GHz	INTERCEPT (mV)	1603	99	230	354	471	595	730	848	985	1111	1239	1345	1483	1605	1722	1849	Measured Value (mV)
	SLOPE (mV/dB)	25.0	-3	3	2	-6	-7	3	-5	7	8	11	-8	5	2	-7	-5	Error (mV)
			-0.11	0.12	0.08	-0.25	-0.29	0.10	-0.18	0.29	0.33	0.44	-0.32	0.19	0.06	-0.26	-0.19	LINEARITY ERROR (dB)
1.44 GHz	INTERCEPT (mV)	1605	101	230	353	471	594	730	849	989	1114	1240	1348	1486	1609	1725	1847	Measured Value (mV)
	SLOPE (mV/dB)	25.1	-1	3	0	-7	-9	1	-5	10	10	10	-7	6	4	-6	-9	Error (mV)
			-0.04	0.10	0.01	-0.28	-0.37	0.06	-0.19	0.40	0.39	0.41	-0.28	0.23	0.14	-0.23	-0.36	LINEARITY ERROR (dB)
Flatness +/-dB		0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.4	0.4	0.3	0.2		

Video Out VS Input Power



Linearity Error VS Input Power



LOG TRANSFER WITH FREQUENCY  
 MODEL: GMDA-D1005-08R11R44  
 TESTED BY: Joshua Monley.  
 TEST DATE: 08/28/2025  
 SERIAL NO: PL54830  
 TEST TEMP: -54C



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Vos= -0.006

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 GHz	INTERCEPT (mV)	1568
	SLOPE (mV/dB)	24.8

80	208	328	444	565	701	811	950	1088	1215	1319	1448	1569	1682	1807
0	4	0	-8	-11	1	-13	2	16	19	-1	4	1	-10	-9
0.01	0.18	0.01	-0.31	-0.43	0.05	-0.51	0.09	0.66	0.78	-0.03	0.17	0.05	-0.39	-0.35

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

1.13 GHz	INTERCEPT (mV)	1581
	SLOPE (mV/dB)	24.7

94	226	347	458	588	715	825	963	1097	1224	1332	1465	1588	1696	1818
-2	6	3	-10	-3	0	-14	1	11	14	-2	8	7	-9	-10
-0.09	0.24	0.13	-0.38	-0.13	0.00	-0.55	0.02	0.44	0.57	-0.06	0.31	0.28	-0.35	-0.42

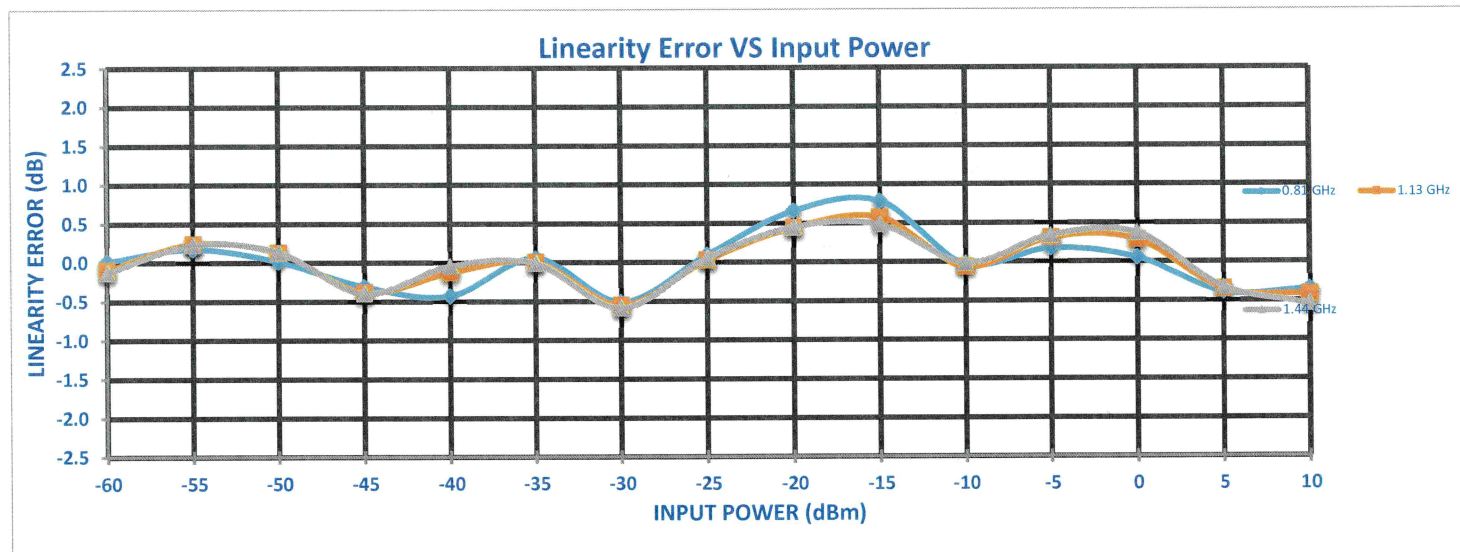
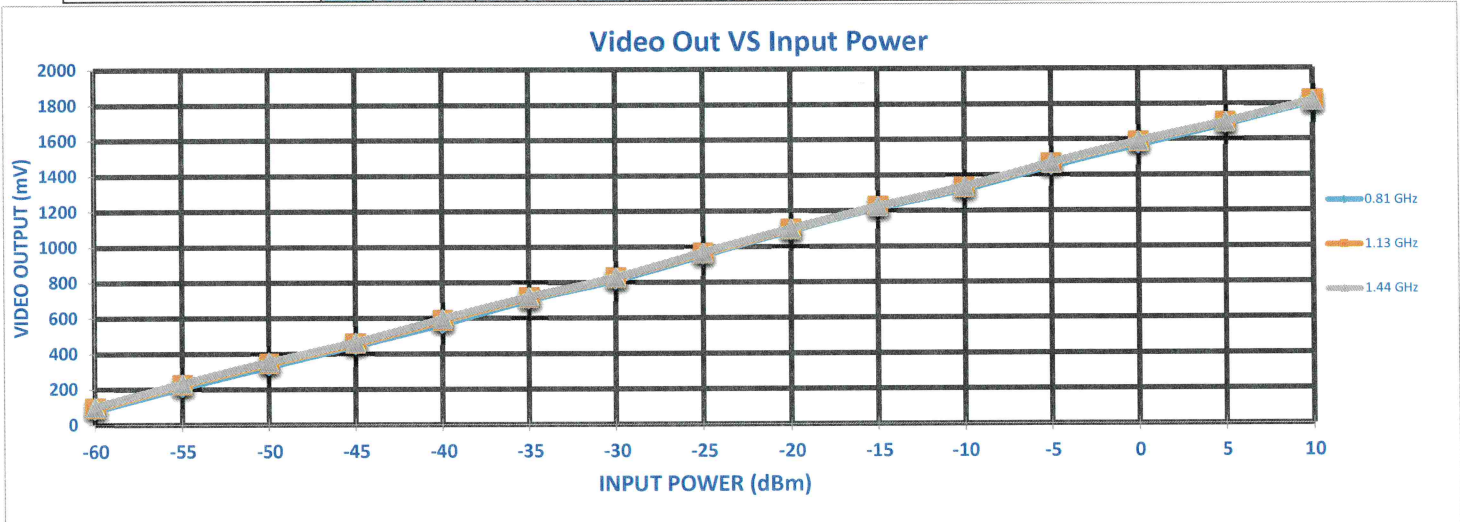
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

1.44 GHz	INTERCEPT (mV)	1583
	SLOPE (mV/dB)	24.6

101	233	354	464	596	720	829	968	1101	1225	1336	1468	1592	1698	1816
-3	6	3	-10	-1	0	-15	1	11	12	0	8	9	-8	-13
-0.13	0.23	0.14	-0.40	-0.04	-0.01	-0.59	0.05	0.45	0.48	-0.02	0.34	0.37	-0.33	-0.54

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

Flatness +/-dB	0.4	0.5	0.5	0.4	0.6	0.4	0.4	0.4	0.3	0.2	0.3	0.4	0.5	0.3	0.2
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LOG TRANSFER WITH FREQUENCY  
 MODEL: GMDA-D1005-08R11R44  
 TESTED BY: Joshua Monley.  
 TEST DATE: 08/28/2025  
 SERIAL NO: PL54830  
 TEST TEMP: +85C



PLANAR MONOLITHICS INDUSTRIES  
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Vos= 0.035

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)	1640
	SLOPE (mV/dB)	25.4

115	242	371	489	609	755	878	1019	1144	1269	1376	1512	1634	1763	1894
0	0	2	-7	-14	4	0	14	12	10	-10	-1	-6	-4	0
-0.01	-0.01	0.07	-0.29	-0.57	0.18	0.02	0.56	0.48	0.40	-0.39	-0.04	-0.24	-0.16	-0.01

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

1.13 GH	INTERCEPT (mV)	1649
	SLOPE (mV/dB)	25.3

128	261	387	502	628	768	889	1026	1148	1274	1383	1525	1649	1774	1901
-3	4	3	-8	-9	5	-1	10	5	5	-13	3	0	-1	-1
-0.10	0.16	0.14	-0.32	-0.34	0.19	-0.03	0.39	0.21	0.19	-0.50	0.11	0.01	-0.05	-0.03

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

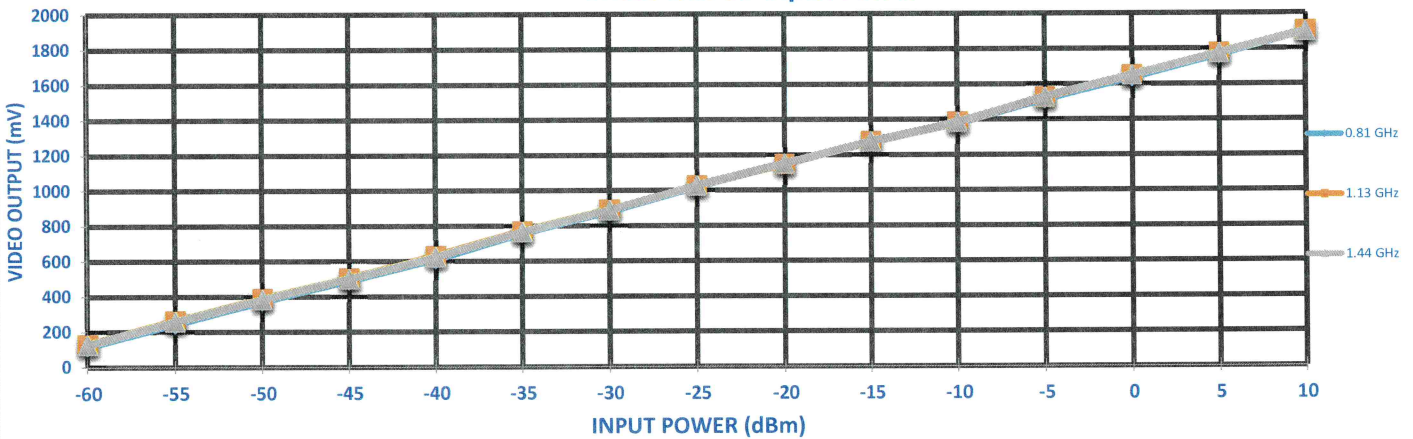
1.44 GH	INTERCEPT (mV)	1650
	SLOPE (mV/dB)	25.4

125	257	383	499	623	765	887	1027	1151	1275	1385	1527	1651	1775	1898
-2	3	2	-8	-11	4	-1	12	9	6	-11	4	1	-2	-6
-0.07	0.13	0.10	-0.33	-0.45	0.14	-0.05	0.46	0.35	0.23	-0.43	0.16	0.04	-0.07	-0.23

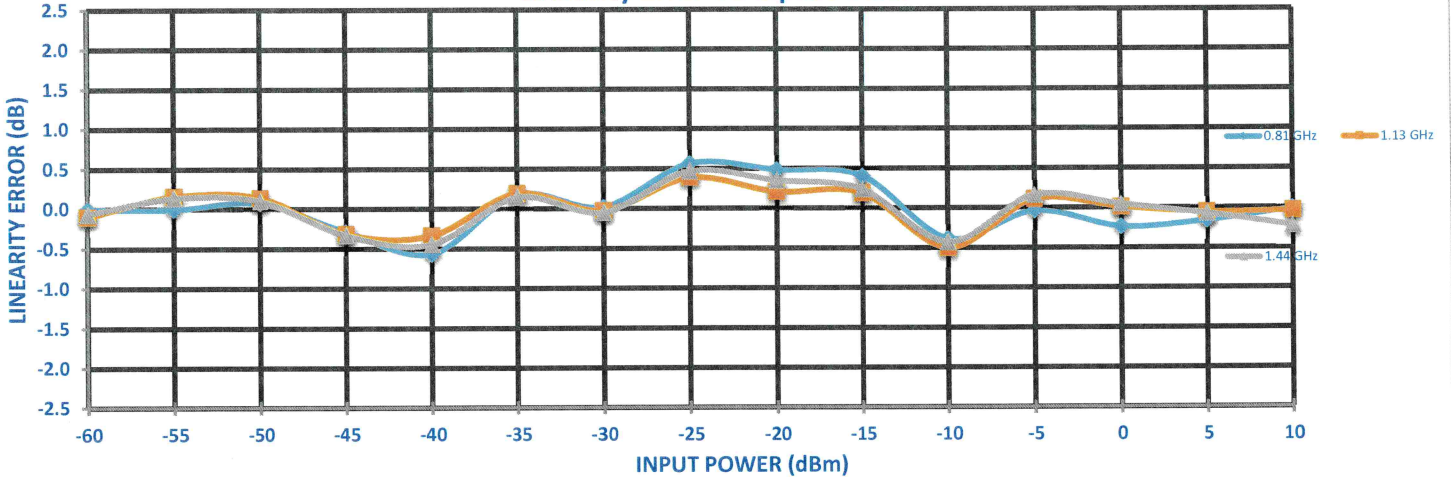
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

Flatness +/-dB	0.3	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.2	0.1
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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

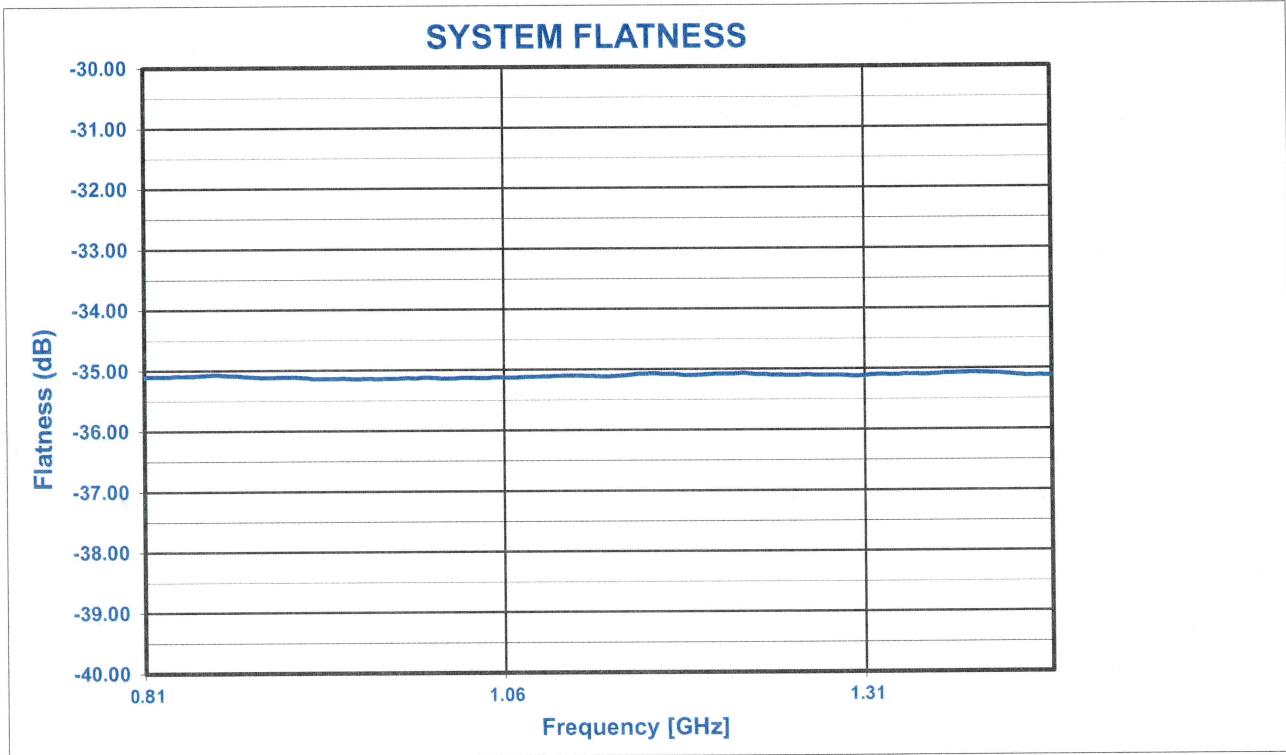
SHEET 7 OF 10



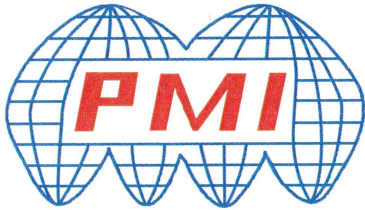
# SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44  
Serial Number: PL54830

Temperature: +25C



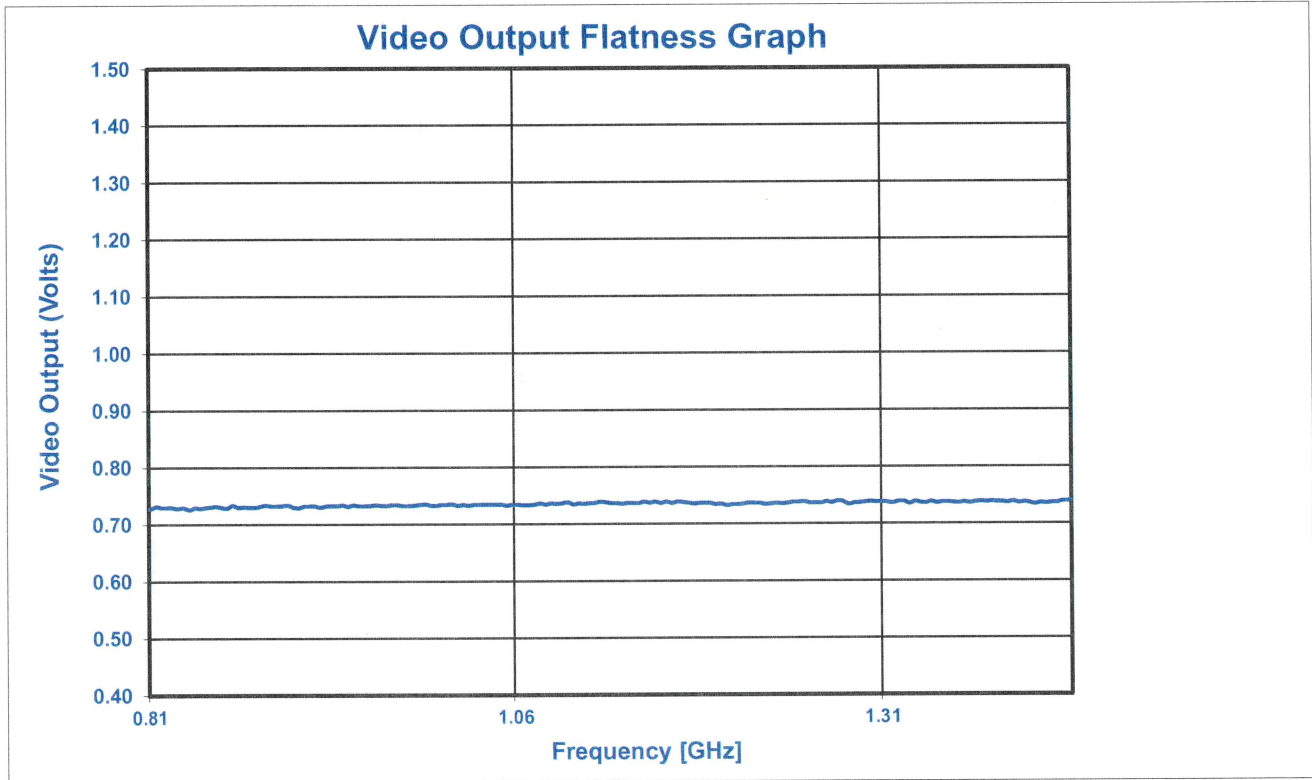
	SIZE	CAGE CODE	DWG. NO.	REVISION
	A	71A34	27641800	A2
	SCALE			SHEET 8 OF 10



**SUMMARY TEST DATA  
ON  
HADA-D2002**

Model Number: GMDA-D1005-08R11R44  
Serial Number: PL54830

Temperature: +25C



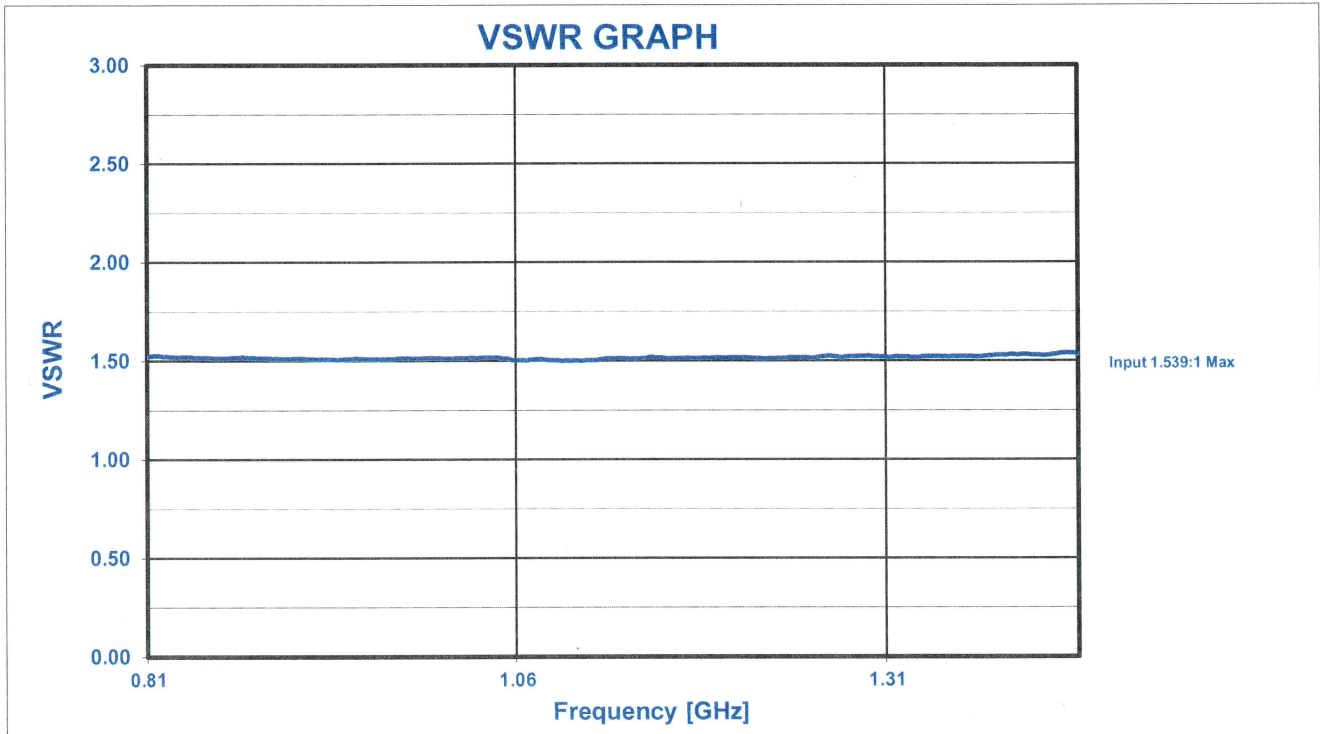
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	A	71A34	27641800	
	SCALE			SHEET 9 OF 10




## SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44  
Serial Number: PL54830

Temperature: +25C



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