

MODEL: GMDA-D1005-08R11R44

S/N: PL54833

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 = 26 mV (See attached plot)

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

Flatness = 21.175 mV Pass X Fail

4. MAXIMUM OUTPUT VOLTAGE

Specification: +2.5v Max

Measurement: 1.906v Pass X Fail

5. INPUT VSWR

Specification: 2.0:1 Max

Measurement @-20dBm input (See attached plot)

VSWR: 1.582:1 Pass X Fail

6. VIDEO RISE TIME

Specification: 30ns Max

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

Rise Time: 16.2ns 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: 102.4ns Pass X Fail

Table with 4 columns: PMI logo, SIZE (A), SCALE, CAGE CODE (71A34), DWG. NO. (27641800), REVISION (A2), SHEET 3 OF 10.

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S/N: PL54833

DATE:

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10. THROUGHPUT TIME

Specification: 30ns Max

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

-35dBm Input: 16ns Pass X Fail

11. OFFSET VOLTAGE

Specification: +/- 50mV Max

25 C Measurement: -6 mV Pass X Fail

-54 C Measurement: -24 mV Pass X Fail

85 C Measurement: 22 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 V. Klumey

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: PL54833
 TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES
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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)

0.81 GHz	INTERCEPT (mV)	1606
	SLOPE (mV/dB)	25.3

87	216	336	465	595	714	840	976	1099	1233	1357	1478	1607	1726	1862
1	3	-3	-1	2	-5	-6	3	0	7	4	-2	1	-7	2
0.05	0.14	-0.13	-0.04	0.09	-0.21	-0.24	0.13	-0.02	0.27	0.16	-0.06	0.03	-0.27	0.09

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

1.13 GHz	INTERCEPT (mV)	1611
	SLOPE (mV/dB)	25.4

89	218	339	468	598	716	844	979	1100	1235	1360	1487	1617	1733	1864
2	4	-2	0	3	-6	-5	3	-3	5	3	3	6	-5	-1
0.06	0.14	-0.10	-0.02	0.10	-0.25	-0.22	0.10	-0.14	0.18	0.10	0.10	0.22	-0.22	-0.06

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

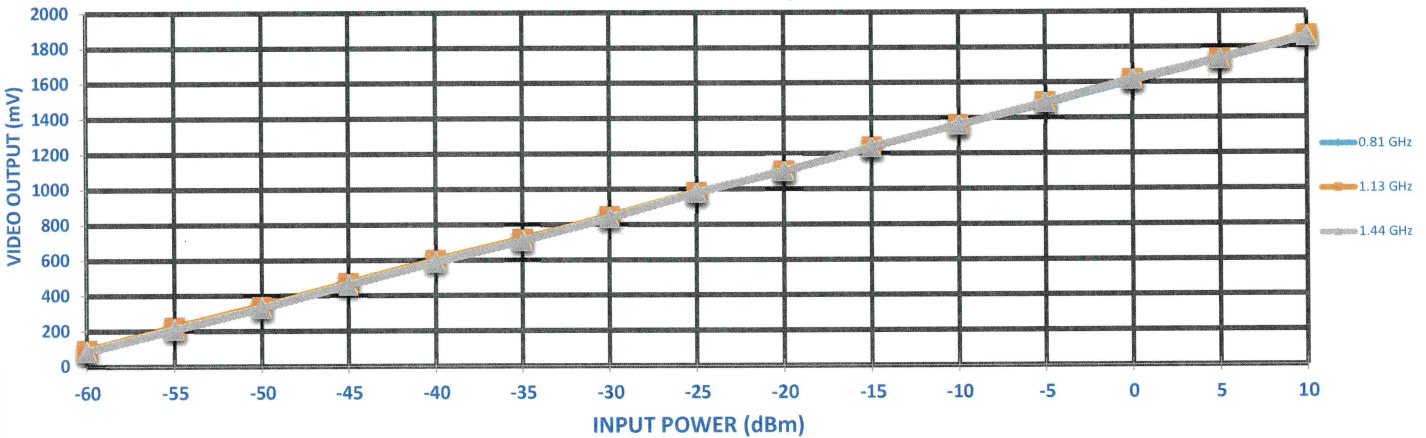
1.44 GHz	INTERCEPT (mV)	1610
	SLOPE (mV/dB)	25.6

81	206	327	458	587	707	835	977	1099	1234	1360	1487	1616	1731	1857
5	2	-5	-2	0	-8	-8	6	0	8	6	5	6	-7	-8
0.18	0.07	-0.19	-0.06	-0.02	-0.32	-0.31	0.24	0.02	0.30	0.23	0.20	0.25	-0.25	-0.32

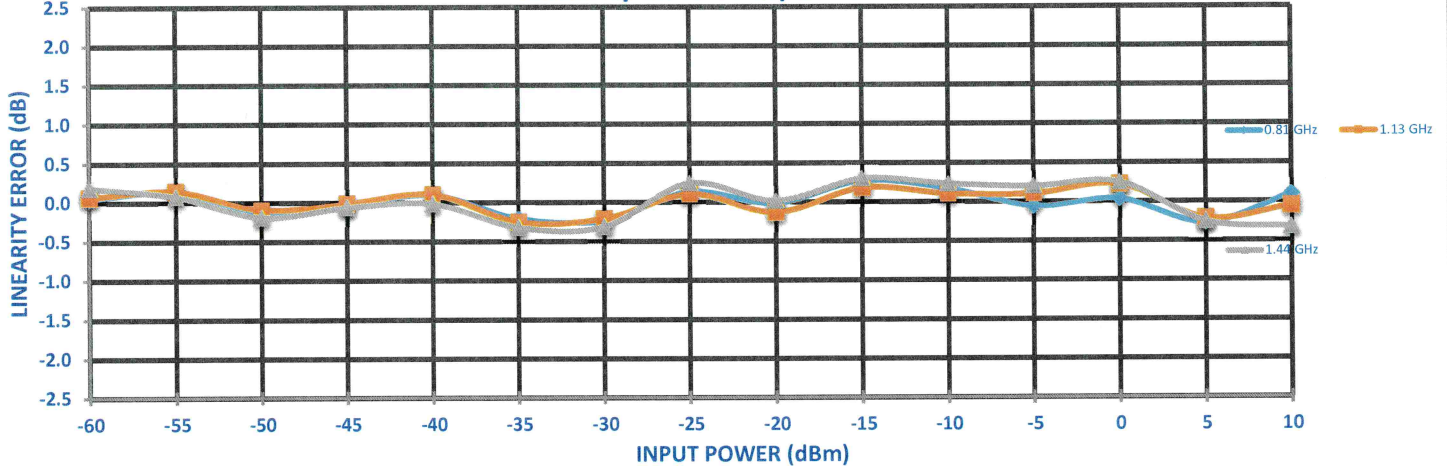
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

Flatness +/-dB	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0	0	0.1	0.2	0.2	0.1	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 5 OF 10

LOG TRANSFER WITH FREQUENCY
 MODEL: GMDA-D1005-08R11R44
 TESTED BY: Joshua Monley.
 TEST DATE: 08/28/2025
 SERIAL NO: PL54833
 TEST TEMP: -54C



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Vos= -0.024

Frequency

-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
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RF Input Power (dBm)

0.81 GHz	INTERCEPT (mV)	1547
	SLOPE (mV/dB)	24.2

78	216	338	465	597	709	830	948	1057	1181	1303	1422	1549	1663	1788
-19	-2	-1	5	16	8	8	5	-7	-4	-2	-4	2	-5	-1
-0.80	-0.09	-0.04	0.22	0.68	0.32	0.33	0.21	-0.28	-0.15	-0.10	-0.17	0.09	-0.20	-0.02

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

1.13 GHz	INTERCEPT (mV)	1554
	SLOPE (mV/dB)	24.1

87	227	349	476	608	718	838	952	1059	1185	1309	1434	1560	1673	1791
-20	-1	1	7	19	8	7	1	-13	-7	-4	1	6	-1	-4
-0.84	-0.04	0.02	0.29	0.77	0.33	0.31	0.04	-0.52	-0.30	-0.15	0.03	0.26	-0.05	-0.16

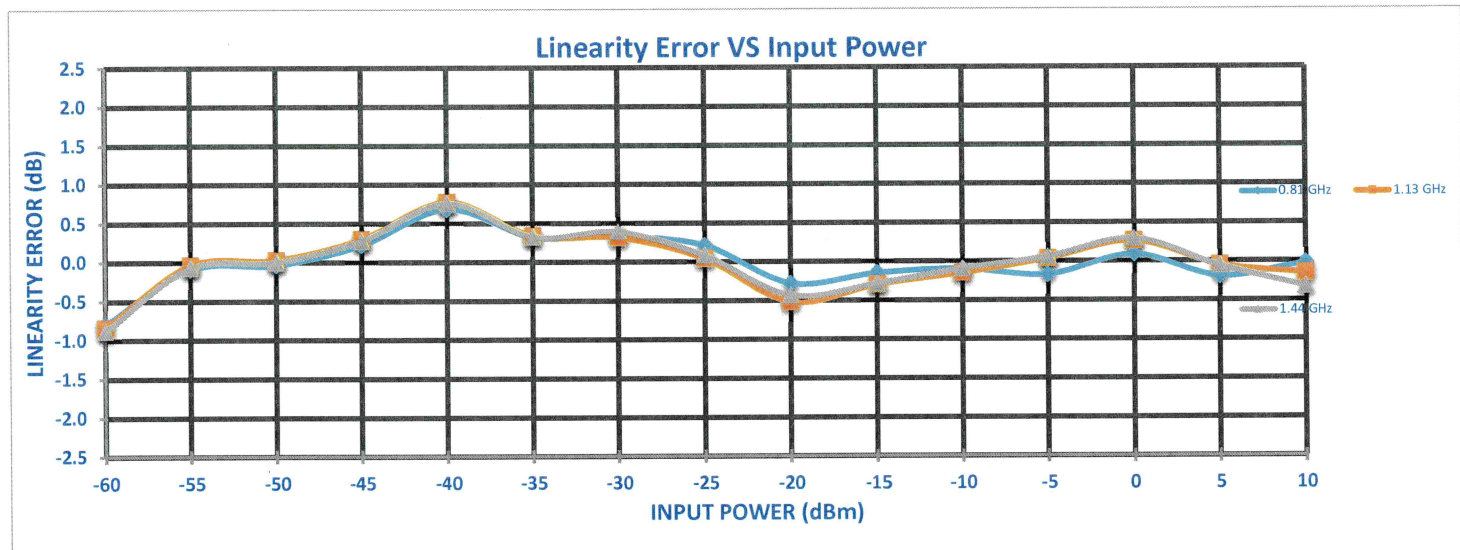
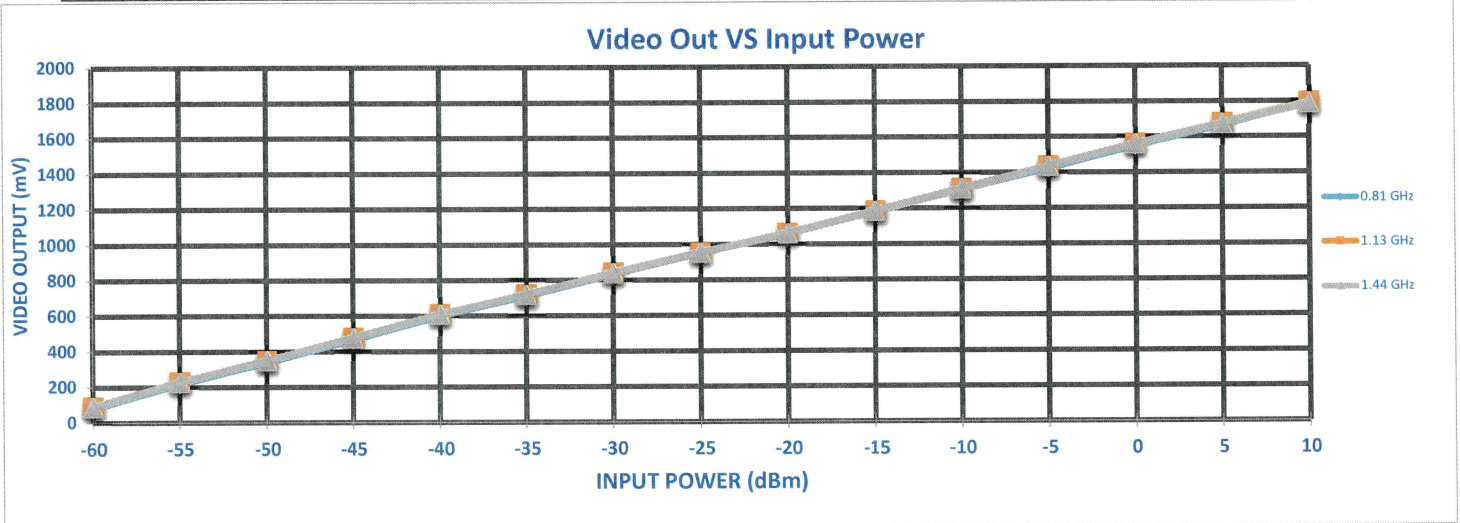
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

1.44 GHz	INTERCEPT (mV)	1553
	SLOPE (mV/dB)	24.1

87	227	349	476	608	718	840	953	1061	1185	1310	1434	1560	1672	1786
-21	-2	0	7	18	8	9	2	-10	-7	-2	1	7	-1	-8
-0.88	-0.07	0.00	0.27	0.75	0.32	0.39	0.08	-0.43	-0.28	-0.09	0.06	0.29	-0.06	-0.33

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

Flatness +/-dB	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
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LOG TRANSFER WITH FREQUENCY
 MODEL: GMDA-D1005-08R11R44
 TESTED BY: Joshua Monley.
 TEST DATE: 08/28/2025
 SERIAL NO: PL54833
 TEST TEMP: +85C



PLANAR MONOLITHICS INDUSTRIES
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Vos= 0.022

Frequency

-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
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RF Input Power (dBm)

0.81 GHz	INTERCEPT (mV)	1640
	SLOPE (mV/dB)	25.7

113	235	353	476	609	734	863	1003	1126	1258	1384	1512	1641	1765	1904
13	7	-4	-9	-4	-8	-7	5	-1	3	1	0	1	-3	7
0.51	0.26	-0.14	-0.35	-0.17	-0.30	-0.27	0.18	-0.03	0.11	0.02	0.01	0.03	-0.14	0.28

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

1.13 GHz	INTERCEPT (mV)	1645
	SLOPE (mV/dB)	25.6

121	243	360	483	617	739	868	1007	1127	1260	1388	1520	1651	1772	1906
14	8	-3	-8	-3	-9	-8	3	-5	0	-1	3	6	-1	5
0.55	0.31	-0.13	-0.33	-0.10	-0.34	-0.31	0.11	-0.21	-0.02	-0.02	0.13	0.24	-0.04	0.18

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

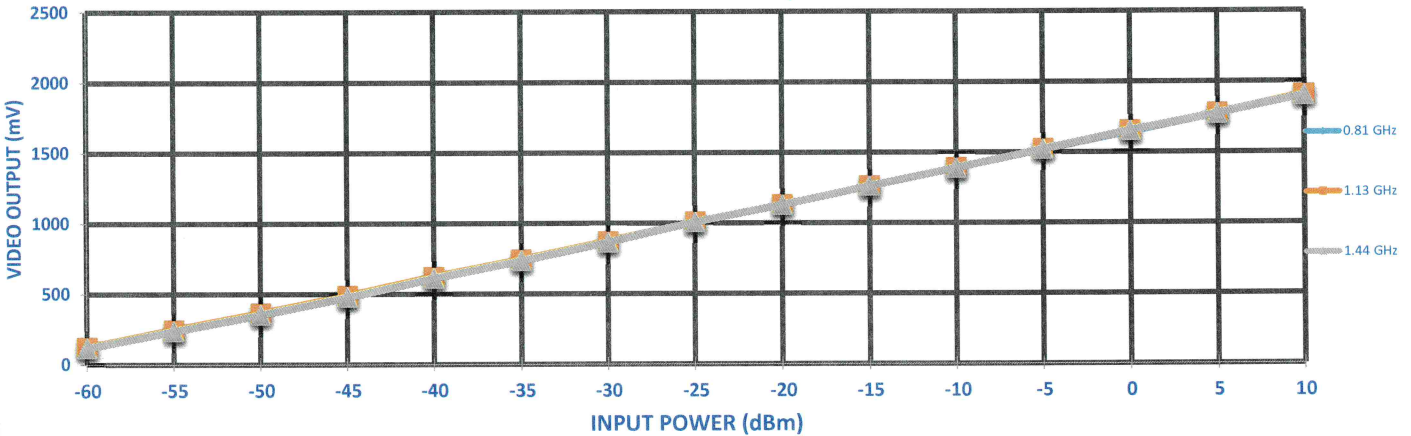
1.44 GHz	INTERCEPT (mV)	1643
	SLOPE (mV/dB)	25.7

115	234	351	475	608	732	861	1006	1127	1260	1388	1520	1651	1770	1898
16	7	-5	-10	-6	-10	-10	6	-1	3	2	5	8	-2	-3
0.63	0.25	-0.20	-0.38	-0.22	-0.40	-0.39	0.24	-0.06	0.11	0.08	0.21	0.30	-0.08	-0.11

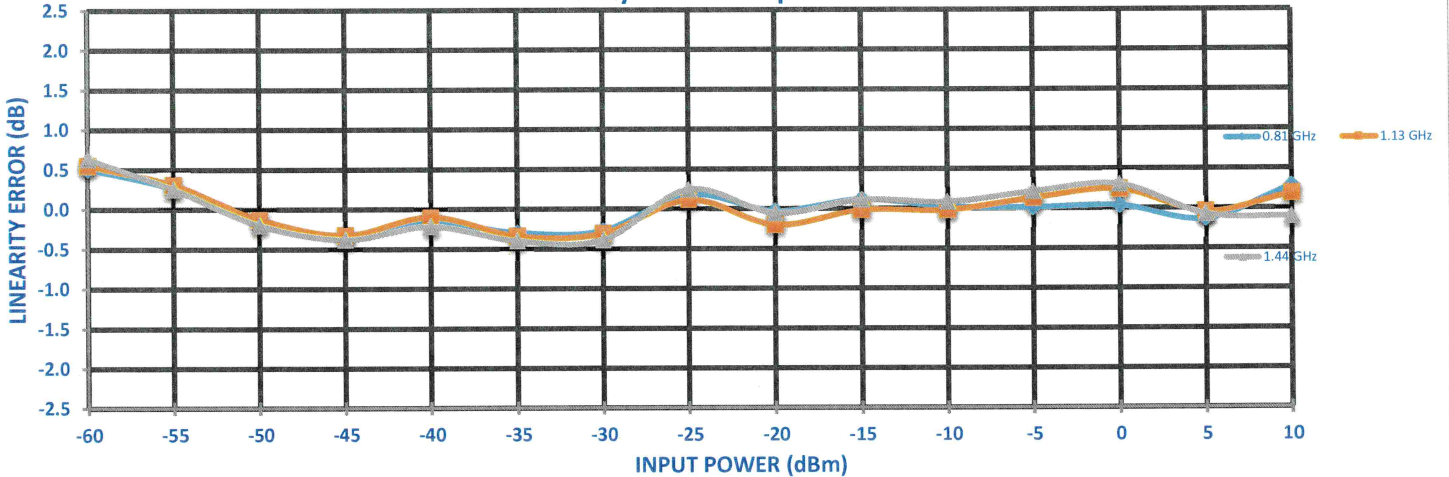
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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



Linearity Error VS Input Power



SIZE

A

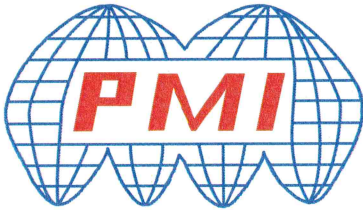
SCALE

CAGE CODE
71A34

DWG. NO.
27641800

REVISION A2

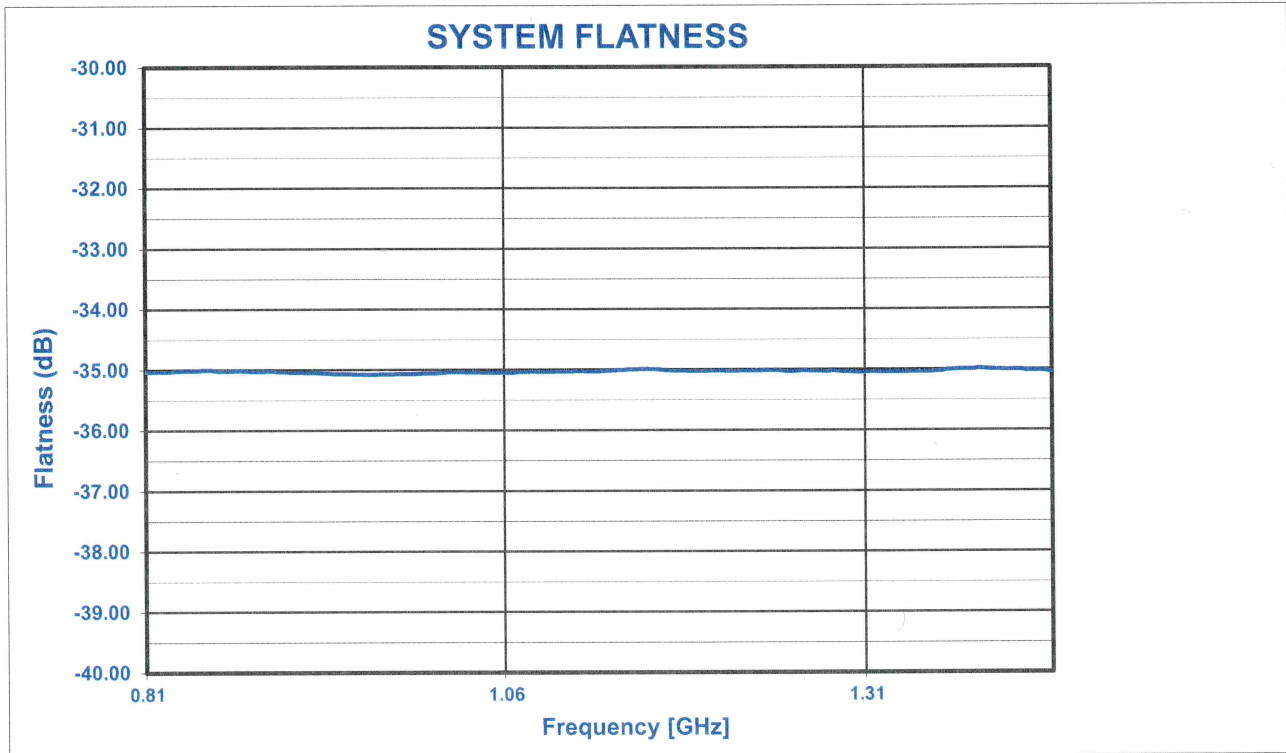
SHEET 7 OF 10



SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54833

Temperature: +25C



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

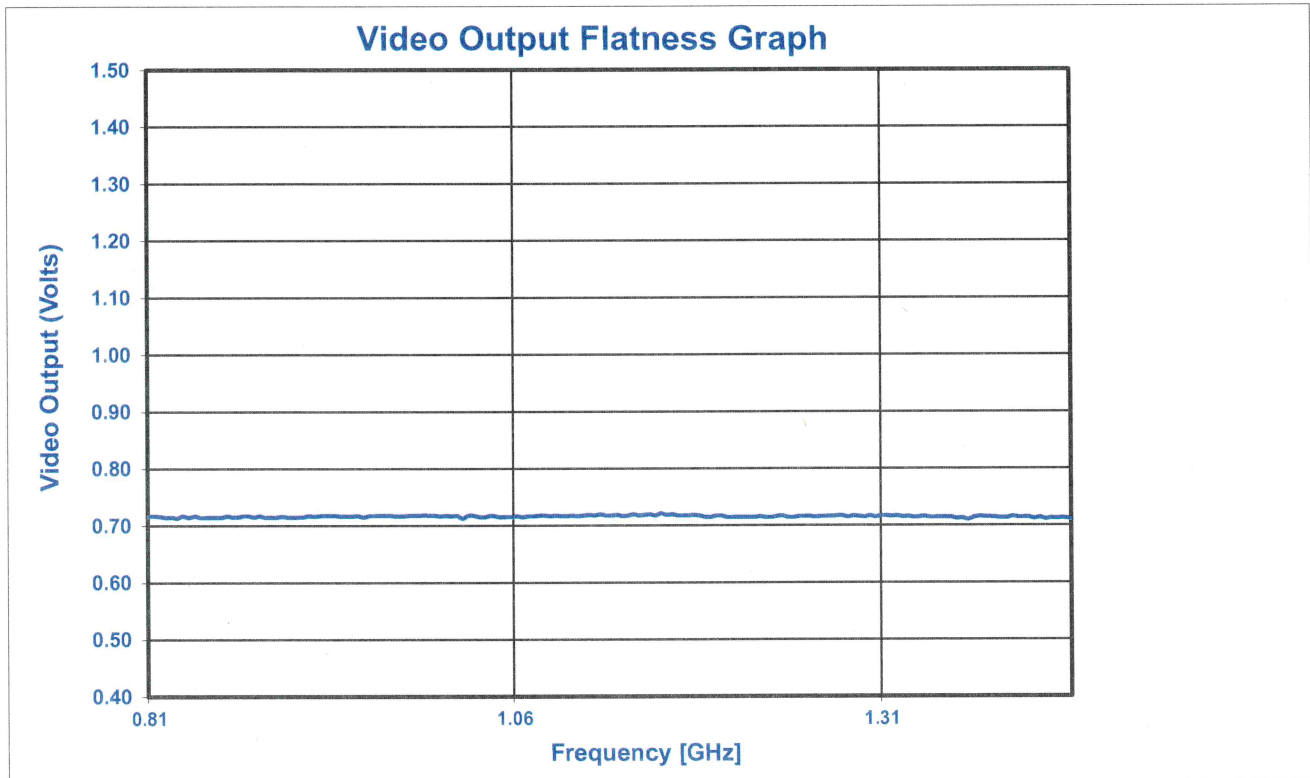



SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44

Serial Number: PL54833

Temperature: +25C



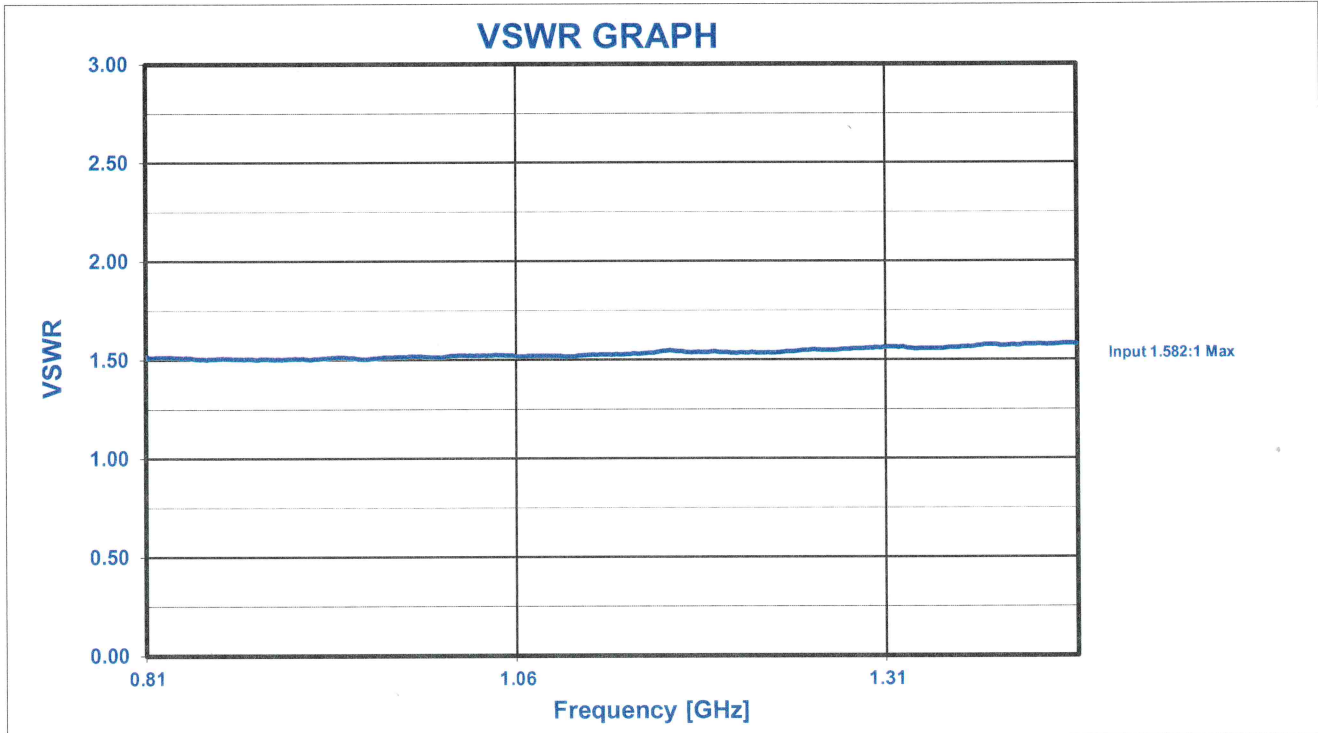
	SIZE	CAGE CODE	DWG. NO.	REVISION A2
	A	71A34	27641800	
	SCALE			SHEET 9 OF 10




**SUMMARY TEST DATA
ON
HADA-D2002**

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54833

Temperature: +25C



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