

MODEL: GMDA-D1005-08R11R44

S/N: PL54834

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 = 21 mV (See attached plot)

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

Flatness = 15.575 mV Pass X Fail _____

4. MAXIMUM OUTPUT VOLTAGE

Specification: +2.5v Max

Measurement: 1.909v Pass X Fail _____

5. INPUT VSWR

Specification: 2.0:1 Max

Measurement @-20dBm input (See attached plot)

VSWR: 1.634:1 Pass X Fail _____

6. VIDEO RISE TIME

Specification: 30ns Max

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

Rise Time: 17.2ns 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: 218ns Pass X Fail _____



SIZE
A
SCALE

CAGE CODE
71A34

DWG. NO.
27641800

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MODEL: GMDA-D1005-08R11R44

S/N: PL54834

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: 16ns Pass X Fail _____

11. OFFSET VOLTAGE

Specification: +/- 50mV Max

25 C Measurement: -8 mV Pass X Fail _____

-54 C Measurement: -21 mV Pass X Fail _____

85 C Measurement: 16 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. Klamm
_{QA3}

Date: 8-29-25

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	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: PL54834
 TEST TEMP: +25C

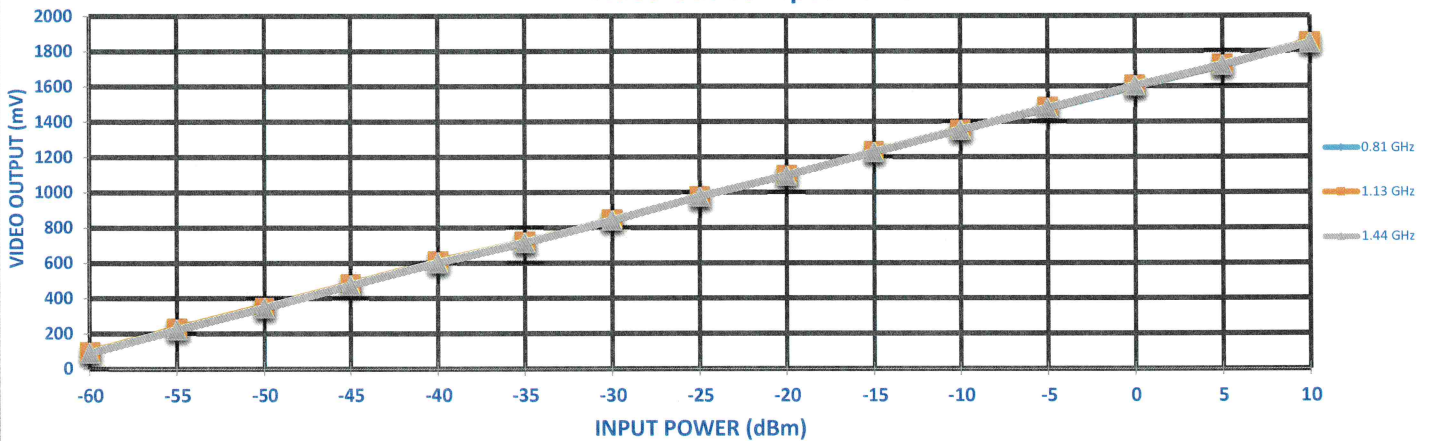


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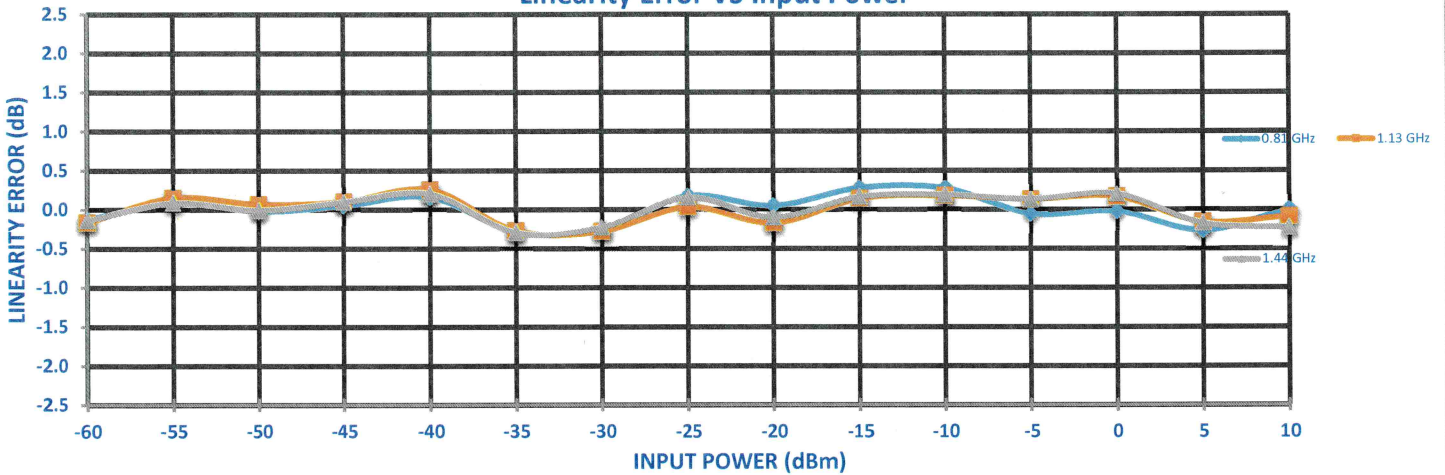
Vos= -0.008

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)	1595																Measured Value (mV)
	SLOPE (mV/dB)	25.0																Error (mV)
			89	220	342	469	597	711	837	973	1095	1226	1351	1468	1594	1713	1845	LINEARITY ERROR (dB)
		-3	3	-1	1	4	-7	-6	4	1	7	7	-1	-1	-7	0		
		-0.13	0.10	-0.03	0.05	0.16	-0.29	-0.26	0.17	0.05	0.28	0.27	-0.06	-0.03	-0.27	0.00		
x																		
1.13 GHz	INTERCEPT (mV)	1599																Measured Value (mV)
	SLOPE (mV/dB)	25.0																Error (mV)
			93	226	349	475	604	716	841	974	1094	1227	1353	1477	1603	1720	1847	LINEARITY ERROR (dB)
		-4	4	1	2	6	-7	-7	1	-4	3	4	3	4	-4	-2		
		-0.17	0.15	0.06	0.09	0.25	-0.28	-0.28	0.03	-0.18	0.14	0.17	0.13	0.16	-0.17	-0.09		
x																		
1.44 GHz	INTERCEPT (mV)	1598																Measured Value (mV)
	SLOPE (mV/dB)	25.1																Error (mV)
			90	221	344	472	600	713	840	975	1094	1226	1352	1476	1603	1719	1843	LINEARITY ERROR (dB)
		-4	2	0	2	5	-7	-6	4	-3	4	5	3	5	-4	-6		
		-0.14	0.08	-0.01	0.09	0.20	-0.30	-0.23	0.15	-0.10	0.16	0.19	0.13	0.20	-0.18	-0.23		
x																		
Flatness +/-dB		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.2	0.2	0.1	0.1		

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: PL54834
 TEST TEMP: -54C

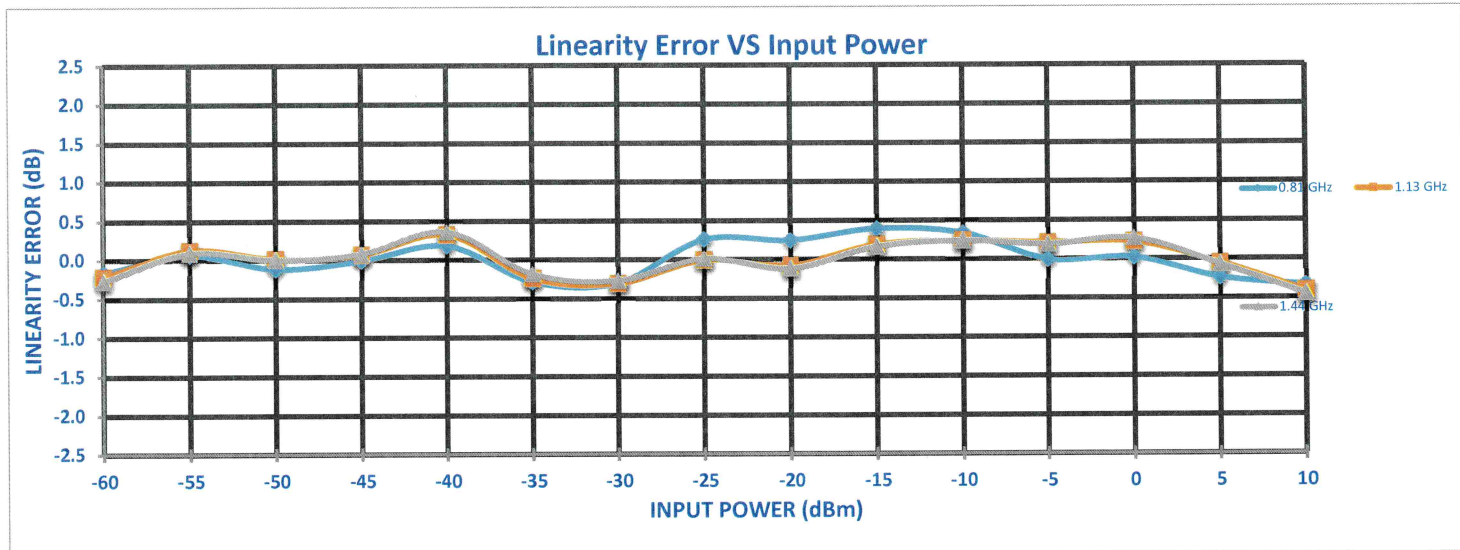
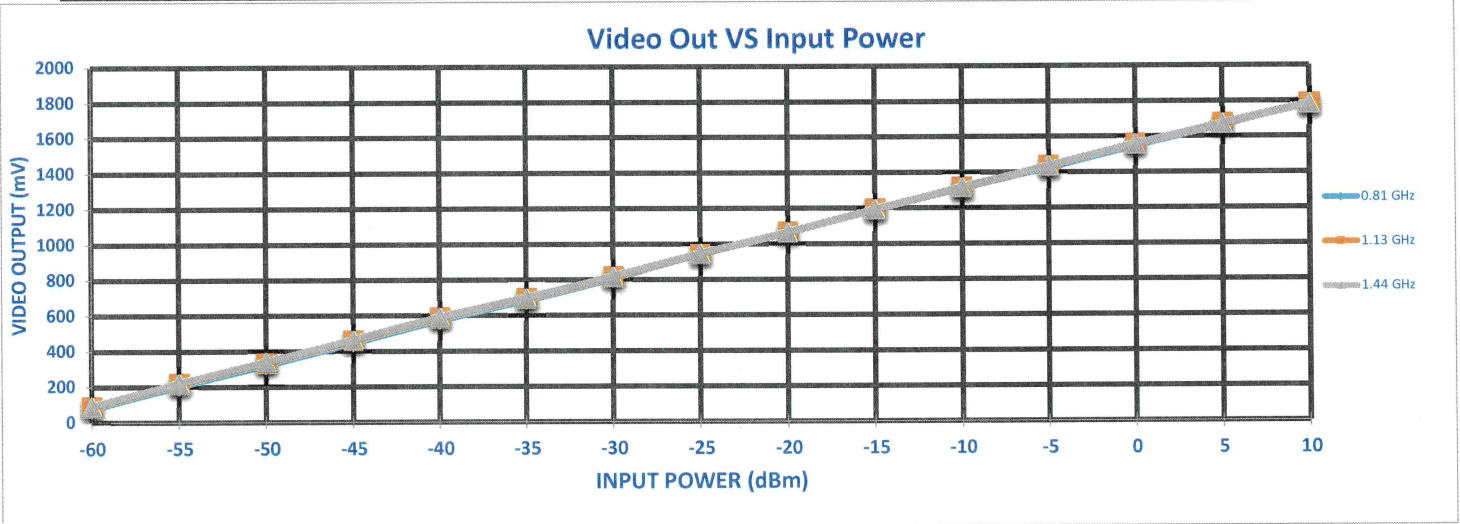


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Vos= -0.021

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)	74	202	320	445	572	683	805	941	1063	1189	1310	1424	1547	1663	1783	Measured Value (mV)
	SLOPE (mV/dB)	-4	1	-3	0	4	-7	-7	6	6	10	8	0	0	-6	-8	Error (mV)
		-0.17	0.06	-0.12	-0.01	0.18	-0.29	-0.30	0.26	0.24	0.39	0.33	-0.01	0.02	-0.24	-0.34	LINEARITY ERROR (dB)
		x															
1.13 GH	INTERCEPT (mV)	86	216	335	458	586	694	814	943	1063	1191	1314	1435	1557	1672	1785	Measured Value (mV)
	SLOPE (mV/dB)	-5	3	0	2	8	-6	-8	0	-2	4	6	5	5	-1	-10	Error (mV)
		-0.22	0.12	0.01	0.06	0.32	-0.24	-0.31	-0.01	-0.08	0.18	0.23	0.20	0.22	-0.06	-0.42	LINEARITY ERROR (dB)
		x															
1.44 GH	INTERCEPT (mV)	90	220	339	462	590	698	817	945	1063	1191	1314	1434	1557	1670	1782	Measured Value (mV)
	SLOPE (mV/dB)	-7	2	0	2	9	-4	-7	0	-3	4	6	5	6	-2	-11	Error (mV)
		-0.27	0.09	0.00	0.08	0.36	-0.18	-0.27	0.01	-0.12	0.16	0.24	0.19	0.26	-0.07	-0.45	LINEARITY ERROR (dB)
		x															
Flatness +/-dB		0.3	0.4	0.4	0.3	0.4	0.3	0.2	0.1	0	0	0.1	0.2	0.2	0.2	0.1	



	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: PL54834
 TEST TEMP: +85C



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Vos= 0.016

Frequency

0.81 GHz	INTERCEPT (mV)	1651
	SLOPE (mV/dB)	25.6

-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
110	246	372	496	629	748	876	1017	1138	1270	1400	1523	1650	1773	1907
-4	4	2	-2	3	-6	-6	7	0	4	5	0	-1	-6	0
-0.15	0.16	0.08	-0.08	0.11	-0.24	-0.24	0.26	-0.02	0.14	0.21	0.02	-0.03	-0.22	0.01

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

1.13 GHz	INTERCEPT (mV)	1655
	SLOPE (mV/dB)	25.6

118	256	380	505	637	753	881	1019	1138	1272	1402	1531	1659	1780	1909
-4	7	3	0	4	-8	-7	3	-6	1	3	4	4	-3	-1
-0.15	0.25	0.11	0.00	0.17	-0.29	-0.28	0.12	-0.23	0.02	0.11	0.16	0.17	-0.10	-0.05

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

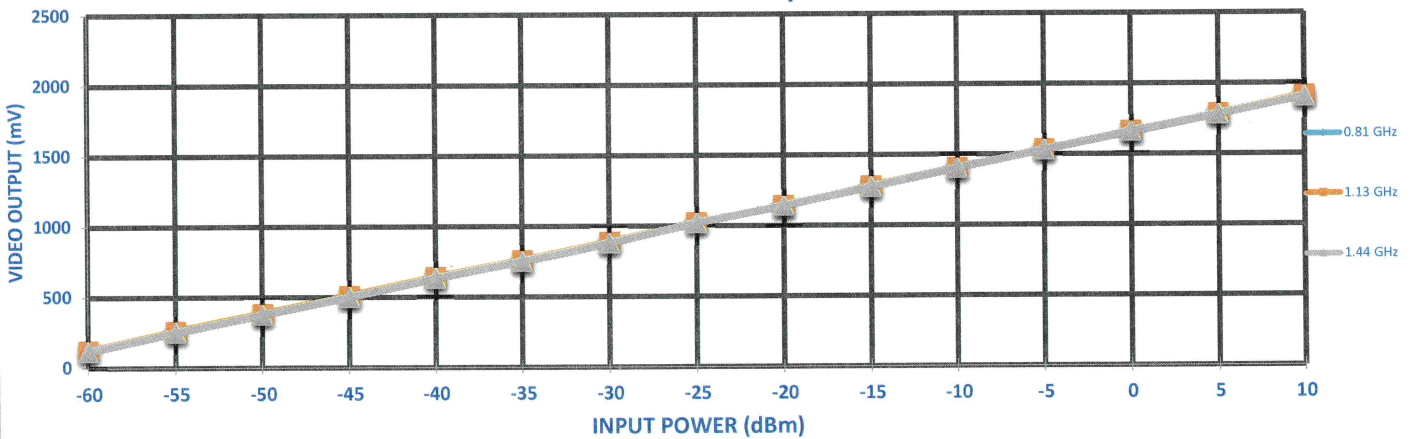
1.44 GHz	INTERCEPT (mV)	1652
	SLOPE (mV/dB)	25.6

113	248	373	498	630	747	875	1017	1137	1269	1400	1529	1658	1777	1902
-2	5	2	-1	3	-8	-8	5	-3	1	4	5	6	-3	-6
-0.08	0.19	0.07	-0.05	0.11	-0.33	-0.33	0.21	-0.10	0.05	0.17	0.20	0.24	-0.12	-0.24

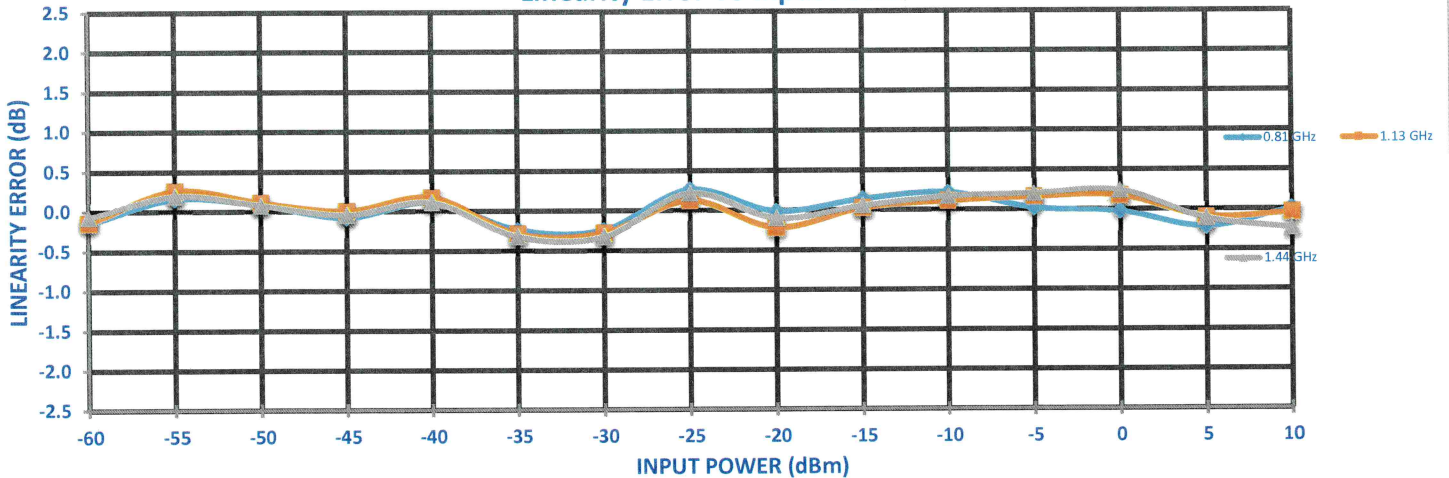
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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



Linearity Error VS Input Power



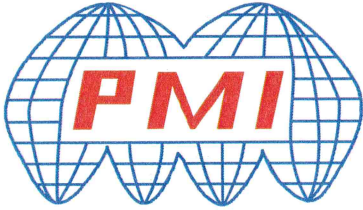
SIZE
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SCALE

CAGE CODE
71A34

DWG. NO.
27641800

REVISION A2

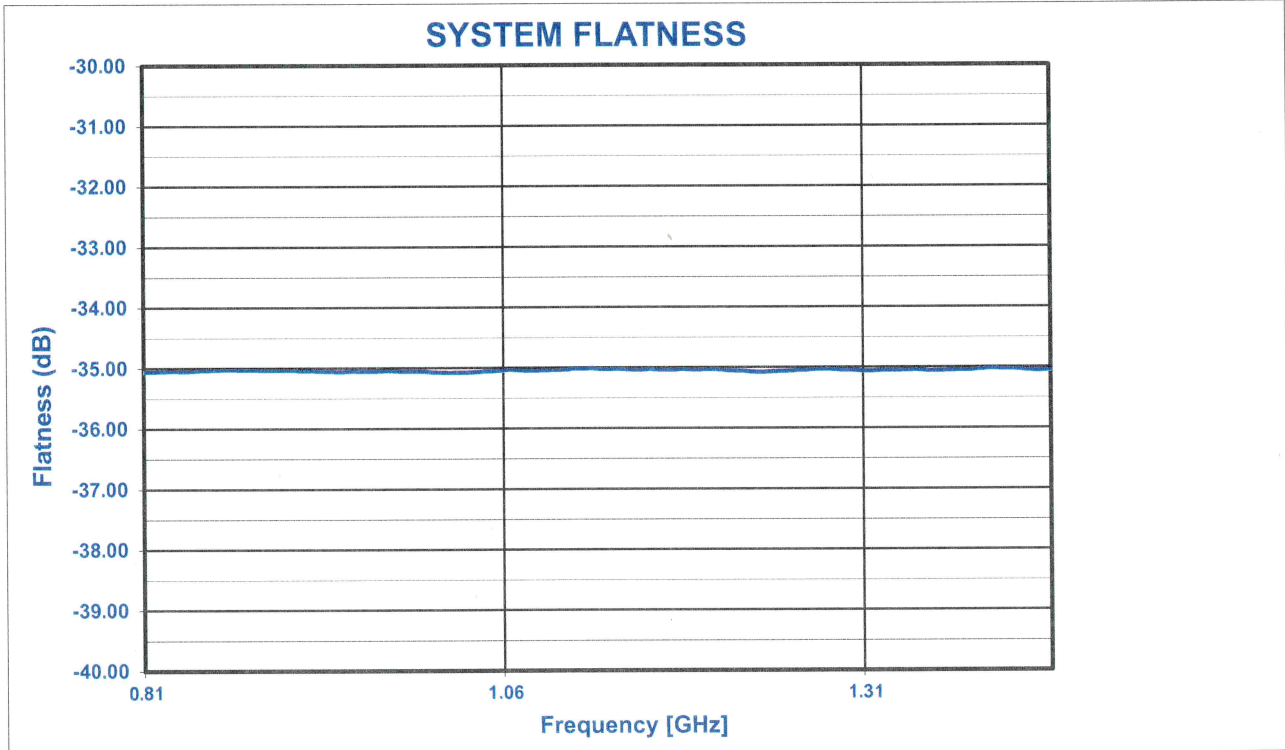
SHEET 7 OF 10




SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54834

Temperature: +25C



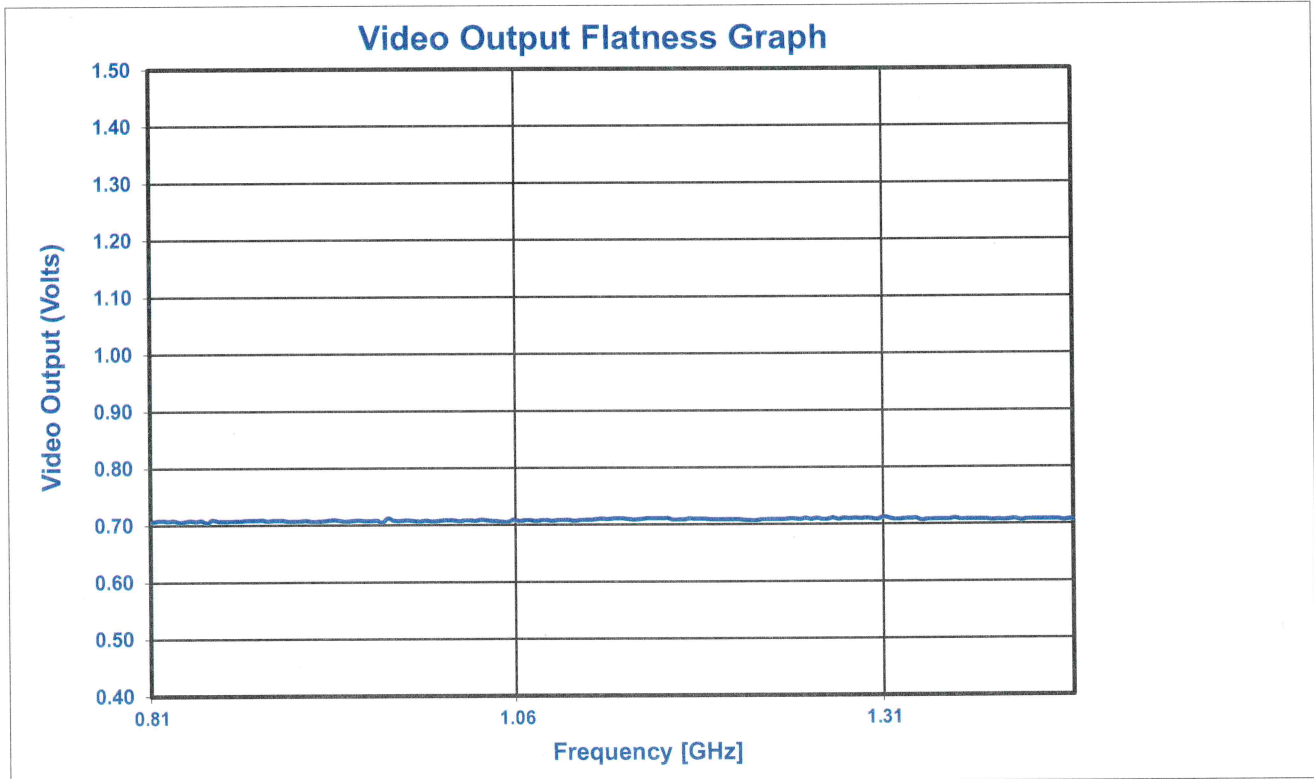
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	A	71A34	27641800	A2
	SCALE			SHEET 8 OF 10




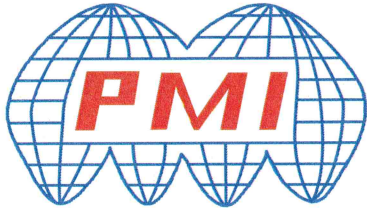
**SUMMARY TEST DATA
ON
HADA-D2002**

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54834

Temperature: +25C



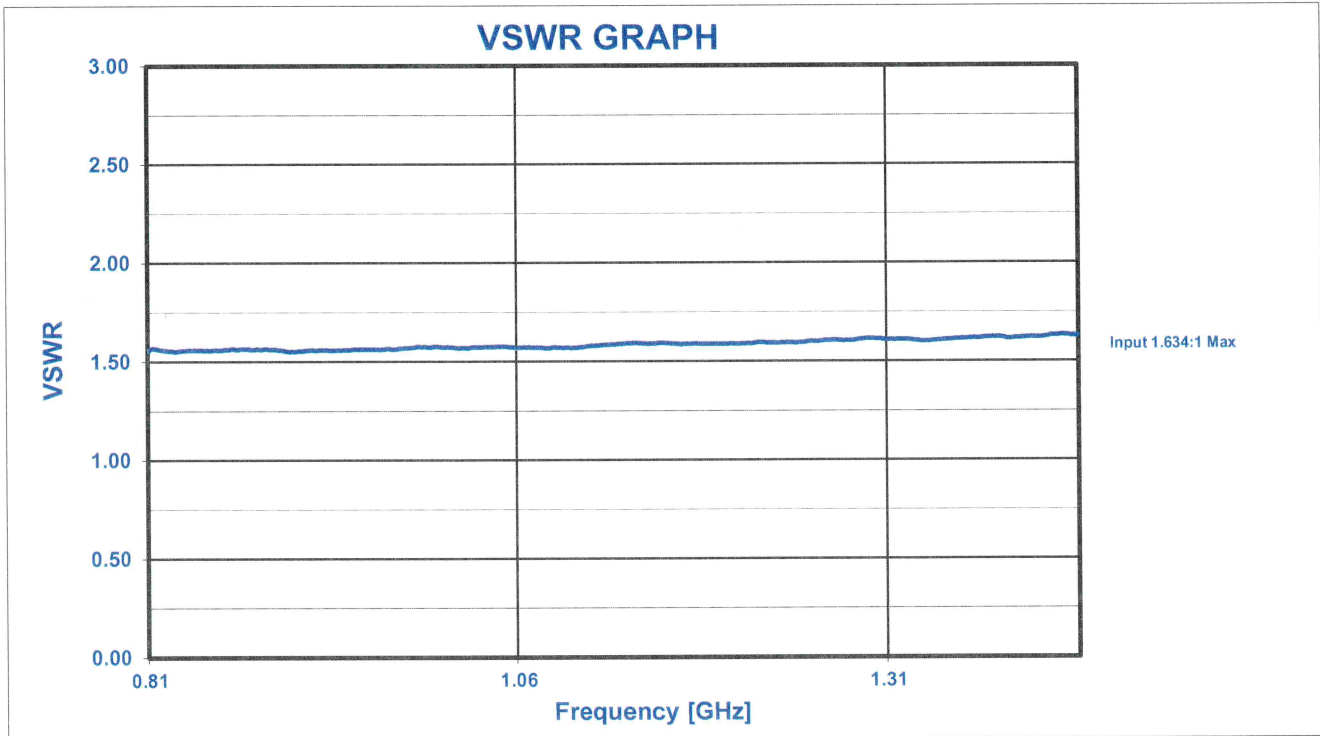
	SIZE	CAGE CODE	DWG. NO.	REVISION
	A	71A34	27641800	A2
	SCALE			SHEET 9 OF 10



SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54834

Temperature: +25C



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