

MODEL: GMDA-D1005-08R11R44

S/N: PL54837

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 = 25 mV (See attached plot)

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

Flatness = 19.425 mV Pass X Fail _____

4. MAXIMUM OUTPUT VOLTAGE

Specification: +2.5v Max

Measurement: 1.92v Pass X Fail _____

5. INPUT VSWR

Specification: 2.0:1 Max

Measurement @-20dBm input (See attached plot)

VSWR: 1.645:1 Pass X Fail _____

6. VIDEO RISE TIME

Specification: 30ns Max

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

Rise Time: 18.4ns 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: 127.2ns 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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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: 17ns Pass X Fail _____

11. OFFSET VOLTAGE

Specification: +/- 50mV Max

25 C Measurement: 13 mV Pass X Fail _____

-54 C Measurement: -4 mV Pass X Fail _____

85 C Measurement: 39 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. Klamm

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: PL54837
 TEST TEMP: +25C

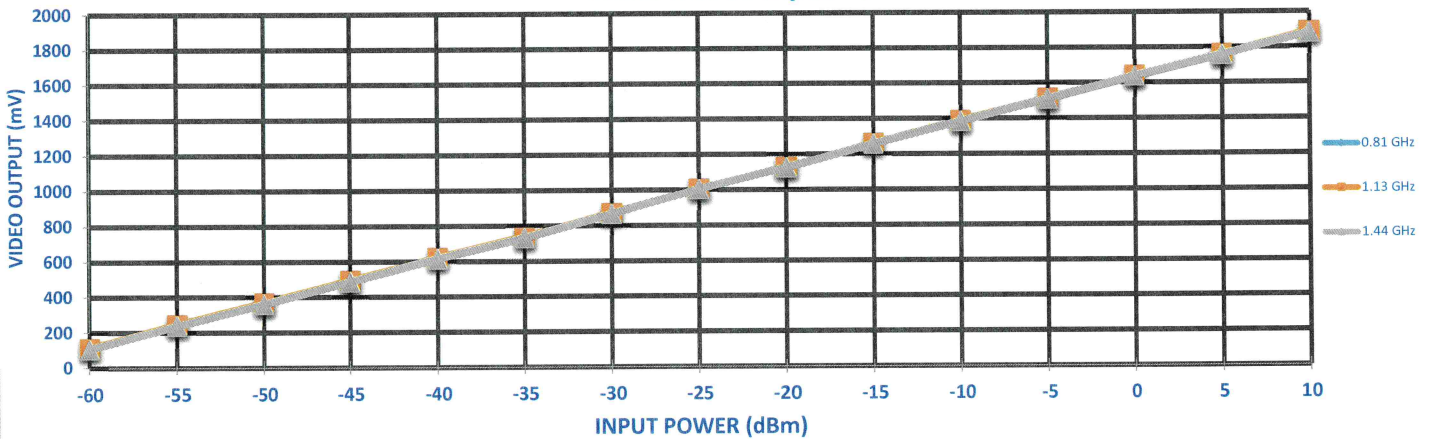


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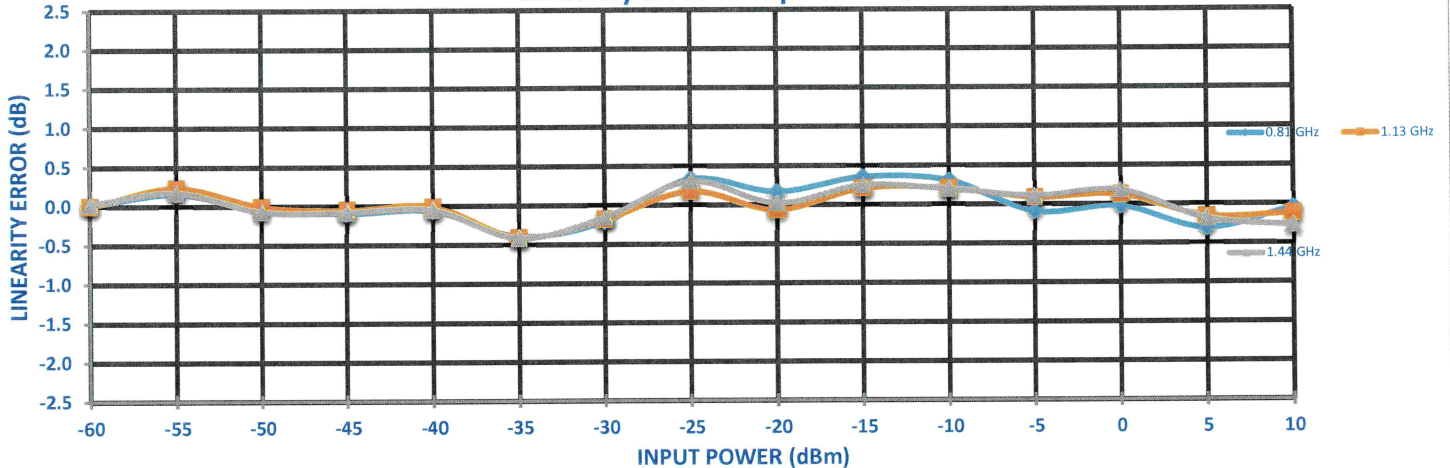
Vos= 0.013

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)	1632	105	236	358	484	612	731	863	1004	1127	1259	1385	1502	1631	1751	1885	Measured Value (mV)
	SLOPE (mV/dB)	25.4	0	4	-1	-3	-2	-10	-5	8	4	9	8	-2	-1	-8	-1	Error (mV)
			0.00	0.15	-0.05	-0.10	-0.07	-0.40	-0.21	0.33	0.17	0.35	0.30	-0.10	-0.03	-0.31	-0.05	LINEARITY ERROR (dB)
X																		
1.13 GH	INTERCEPT (mV)	1635	110	243	364	490	618	735	868	1004	1125	1259	1386	1510	1638	1758	1886	Measured Value (mV)
	SLOPE (mV/dB)	25.4	0	6	0	-1	0	-10	-5	4	-2	5	5	2	3	-4	-3	Error (mV)
			0.00	0.23	-0.01	-0.05	-0.01	-0.41	-0.18	0.17	-0.07	0.21	0.20	0.08	0.12	-0.16	-0.12	LINEARITY ERROR (dB)
X																		
1.44 GH	INTERCEPT (mV)	1633	106	237	358	485	613	731	865	1004	1124	1257	1383	1508	1637	1755	1880	Measured Value (mV)
	SLOPE (mV/dB)	25.5	1	4	-2	-2	-1	-11	-4	8	1	6	5	3	4	-5	-7	Error (mV)
			0.03	0.17	-0.07	-0.08	-0.06	-0.42	-0.15	0.31	0.02	0.25	0.20	0.11	0.18	-0.19	-0.28	LINEARITY ERROR (dB)
X																		
Flatness +/-dB		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1	0	0.1	0.2	0.1	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: PL54837
 TEST TEMP: -54C



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Vos= -0.004

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)	1632
	SLOPE (mV/dB)	25.4

91	239	366	493	622	737	864	1007	1134	1264	1388	1504	1632	1752	1871
-18	3	3	3	5	-7	-7	9	9	13	10	-1	0	-7	-15
-0.72	0.11	0.12	0.12	0.20	-0.27	-0.26	0.37	0.37	0.50	0.38	-0.05	-0.01	-0.28	-0.59

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

1.13 GHz	INTERCEPT (mV)	1636
	SLOPE (mV/dB)	25.3

102	252	378	504	633	746	872	1009	1133	1266	1391	1514	1640	1760	1872
-19	5	5	4	7	-6	-7	4	2	9	7	4	4	-3	-17
-0.74	0.20	0.19	0.17	0.28	-0.25	-0.26	0.17	0.08	0.34	0.29	0.16	0.15	-0.10	-0.67

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

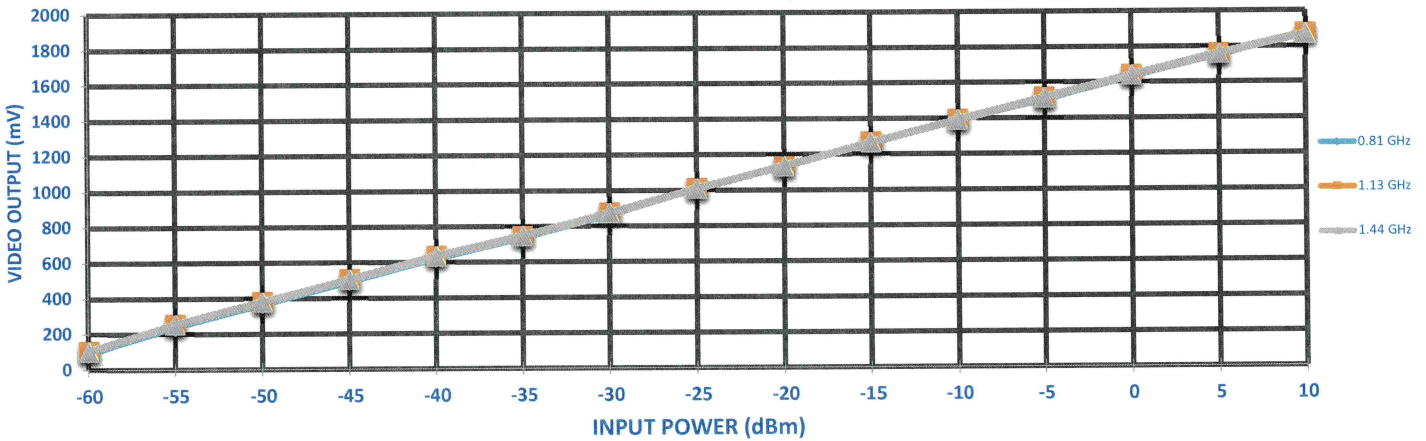
1.44 GHz	INTERCEPT (mV)	1634
	SLOPE (mV/dB)	25.2

103	253	379	505	635	747	873	1009	1133	1264	1390	1512	1639	1758	1868
-20	4	4	4	8	-6	-6	4	2	8	8	4	5	-2	-18
-0.78	0.17	0.17	0.17	0.33	-0.22	-0.22	0.18	0.10	0.30	0.30	0.14	0.18	-0.09	-0.73

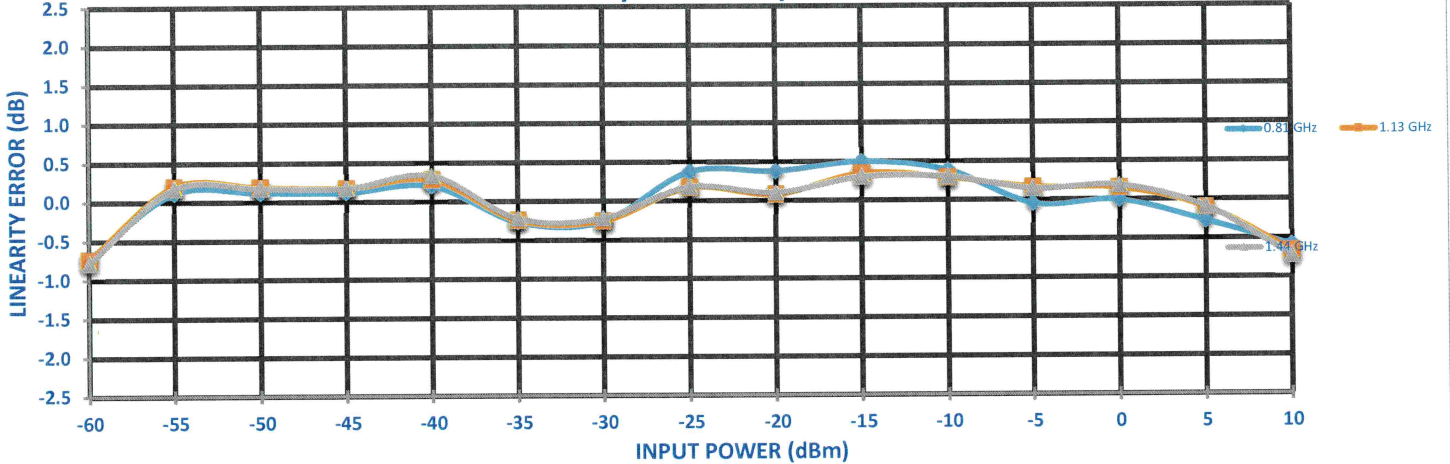
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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



Linearity Error VS Input Power



	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: PL54837
 TEST TEMP: +85C



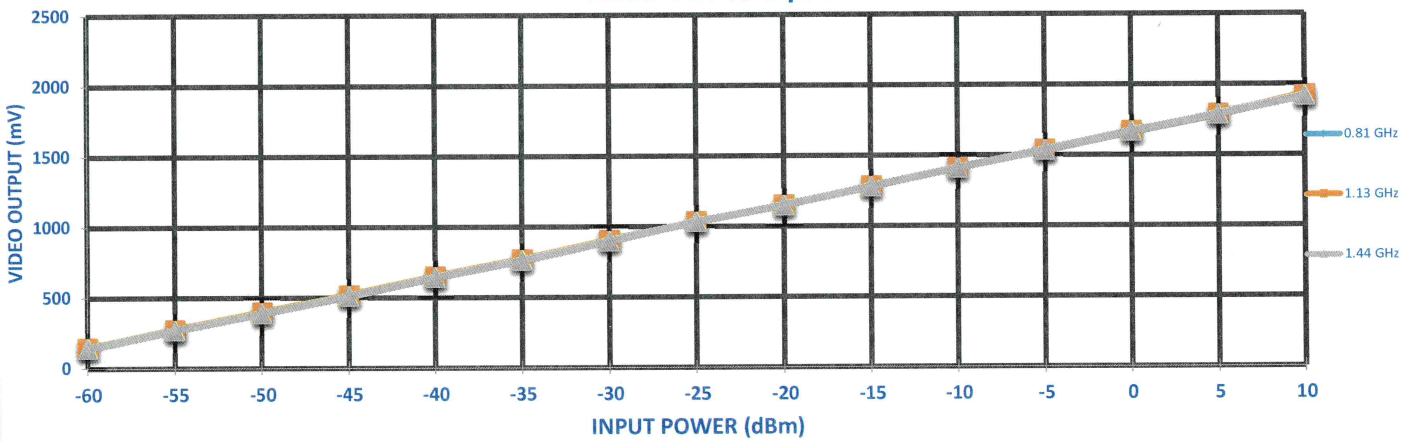
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Vos= 0.039

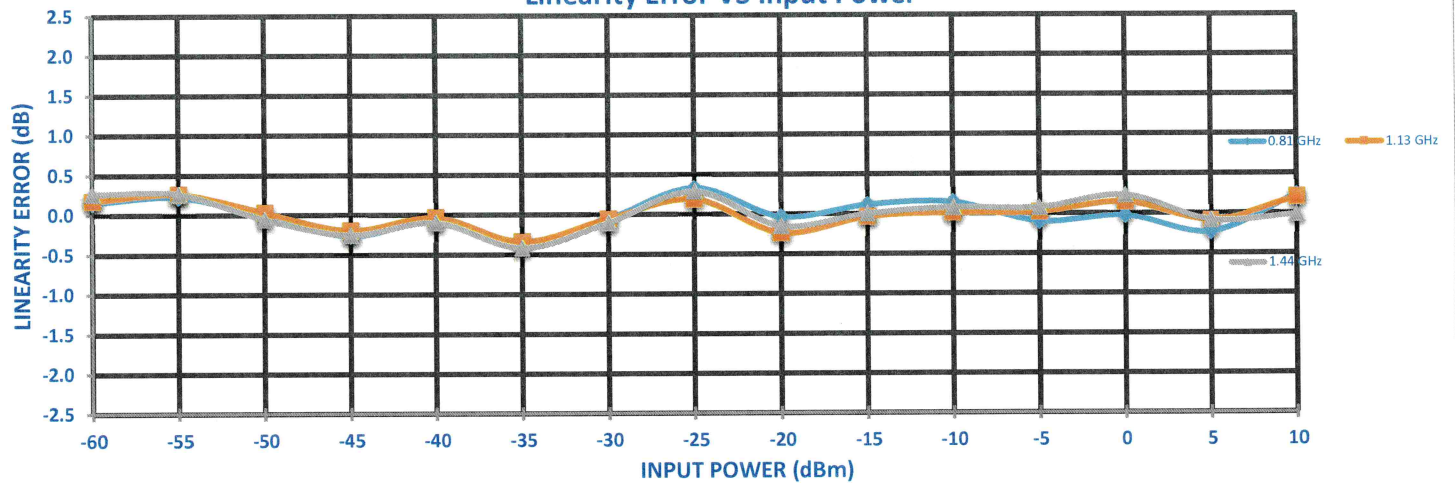
Frequency

		-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)
0.81 GH	INTERCEPT (mV)	134	263	384	505	637	757	892	1029	1147	1278	1406	1527	1656	1778	1917	Measured Value (mV)
	SLOPE (mV/dB)	4	6	-1	-7	-2	-9	-1	8	-1	3	4	-3	-1	-6	6	Error (mV)
		0.15	0.22	-0.02	-0.27	-0.08	-0.36	-0.06	0.33	-0.04	0.11	0.14	-0.10	-0.03	-0.24	0.23	LINEARITY ERROR (dB)
		X															
1.13 GH	INTERCEPT (mV)	144	273	394	515	646	765	899	1032	1148	1280	1408	1535	1665	1786	1920	Measured Value (mV)
	SLOPE (mV/dB)	4	7	1	-5	-1	-9	-2	5	-6	-1	0	0	4	-2	5	Error (mV)
		0.17	0.26	0.03	-0.20	-0.03	-0.34	-0.06	0.18	-0.24	-0.04	0.01	0.02	0.14	-0.09	0.19	LINEARITY ERROR (dB)
		X															
1.44 GH	INTERCEPT (mV)	141	268	387	509	640	759	894	1031	1147	1278	1407	1534	1665	1784	1913	Measured Value (mV)
	SLOPE (mV/dB)	7	7	-1	-6	-3	-11	-3	7	-4	0	2	2	6	-2	0	Error (mV)
		0.27	0.26	-0.06	-0.26	-0.10	-0.42	-0.11	0.28	-0.15	0.00	0.08	0.07	0.23	-0.09	-0.01	LINEARITY ERROR (dB)
		X															
Flatness +/-dB		0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0	0	0	0.2	0.2	0.2	0.1	

Video Out VS Input Power



Linearity Error VS Input Power



SIZE

A

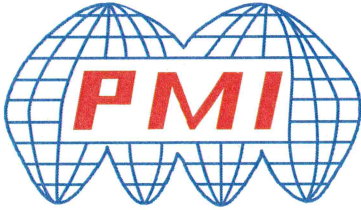
SCALE

CAGE CODE
71A34

DWG. NO.
27641800

REVISION A2

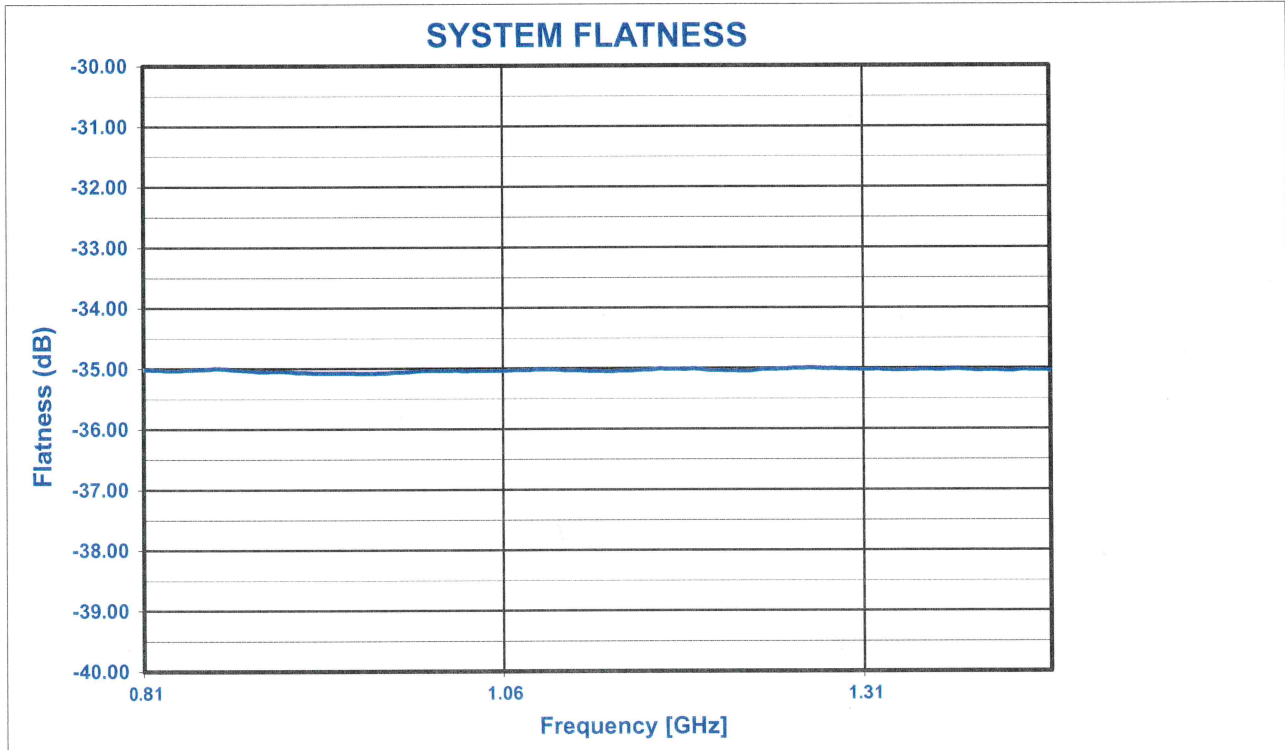
SHEET 7 OF 10



SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54837

Temperature: +25C



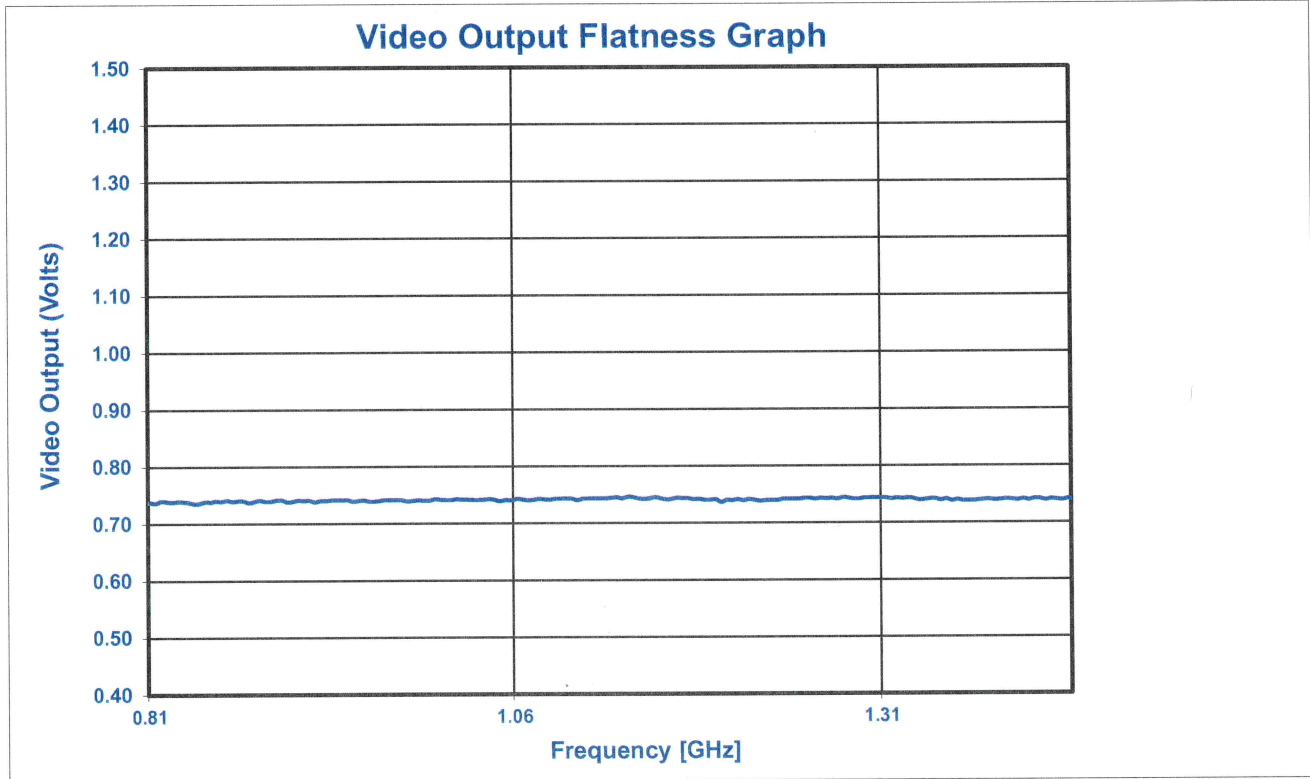
	SIZE	CAGE CODE	DWG. NO.	REVISION
	A	71A34	27641800	A2
	SCALE			SHEET 8 OF 10



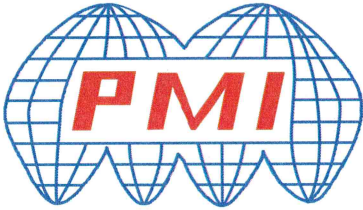
SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54837

Temperature: +25C



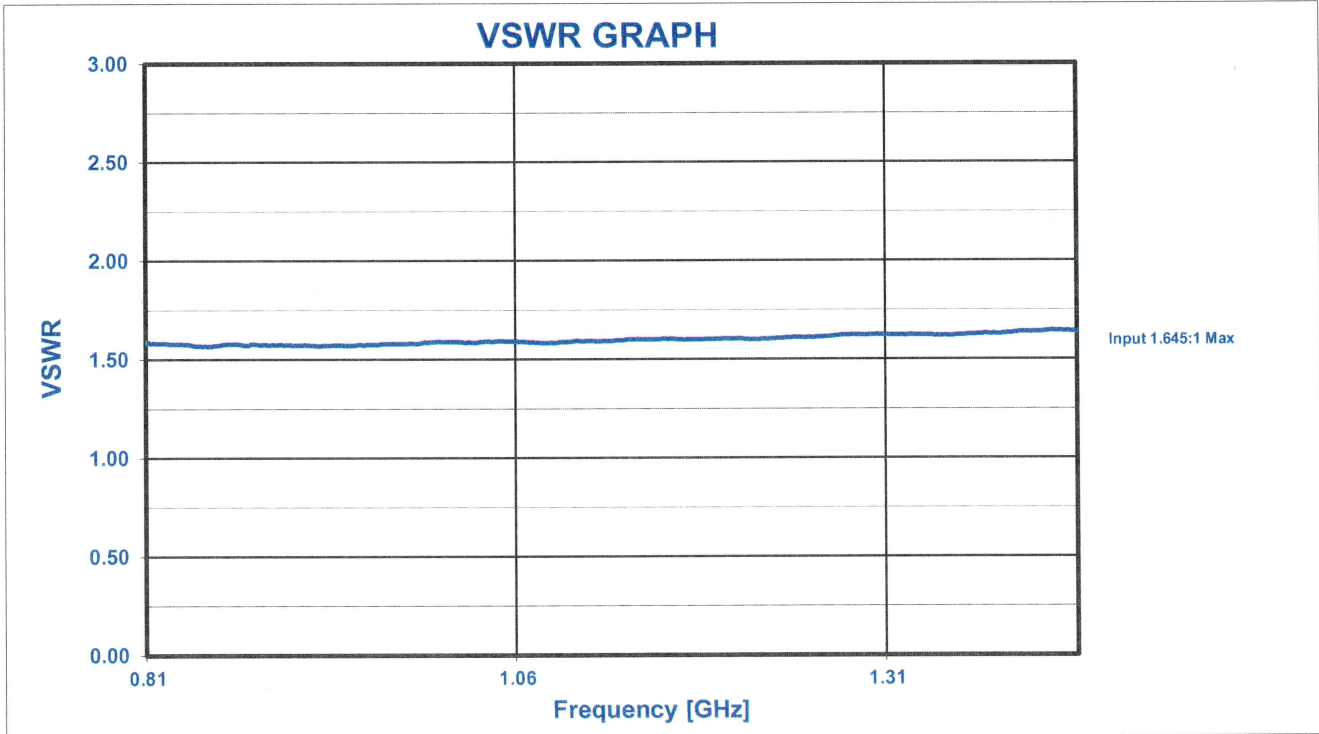
	SIZE	CAGE CODE	DWG. NO.	REVISION A2
	A	71A34	27641800	
	SCALE			SHEET 9 OF 10



SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54837

Temperature: +25C



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