

MODEL: GMDA-D1005-08R11R44

S/N: PL54831

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 = 26 mV (See attached plot)

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

Flatness = 20.575 mV Pass X Fail

4. MAXIMUM OUTPUT VOLTAGE

Specification: +2.5v Max

Measurement: 1.927v Pass X Fail

5. INPUT VSWR

Specification: 2.0:1 Max

Measurement @-20dBm input (See attached plot)

VSWR: 1.578:1 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: 133.8ns Pass X Fail

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

MODEL: GMDA-D1005-08R11R44

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10. THROUGHPUT TIME

Specification: 30ns Max

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

-35dBm Input: 18ns Pass X Fail _____

11. OFFSET VOLTAGE

Specification: +/- 50mV Max

25 C Measurement: -12 mV Pass X Fail _____

-54 C Measurement: -16 mV Pass X Fail _____

85 C Measurement: 25 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. Klausmeyer
_{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: PL54831
 TEST TEMP: +25C

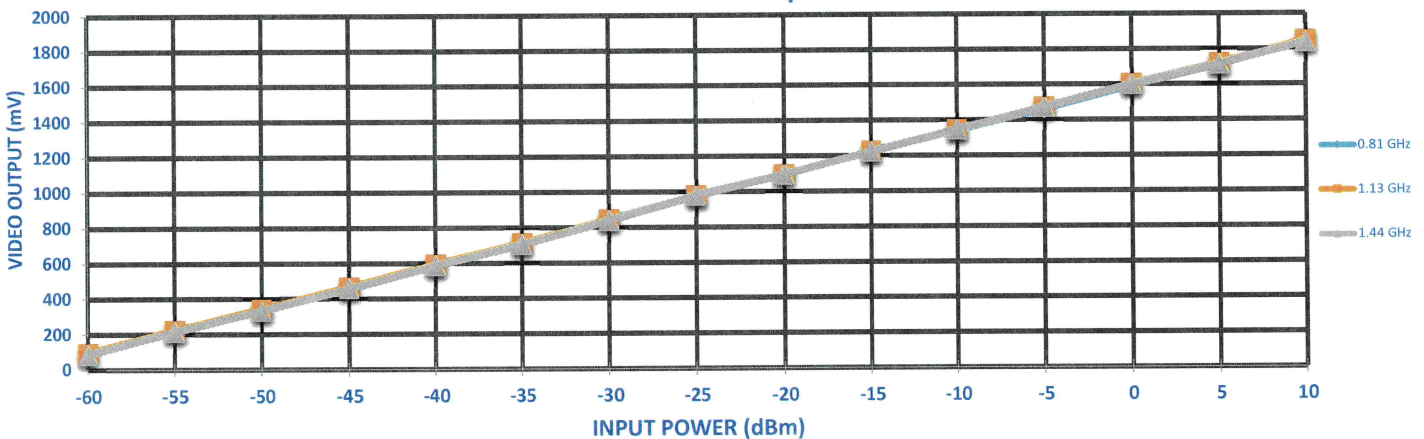


PLANAR MONOLITHICS INDUSTRIES
 4921 Robert J. Mathews Parkway, Suite 1
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 Email: sales@pmi-rf.com | www.pmi-rf.com

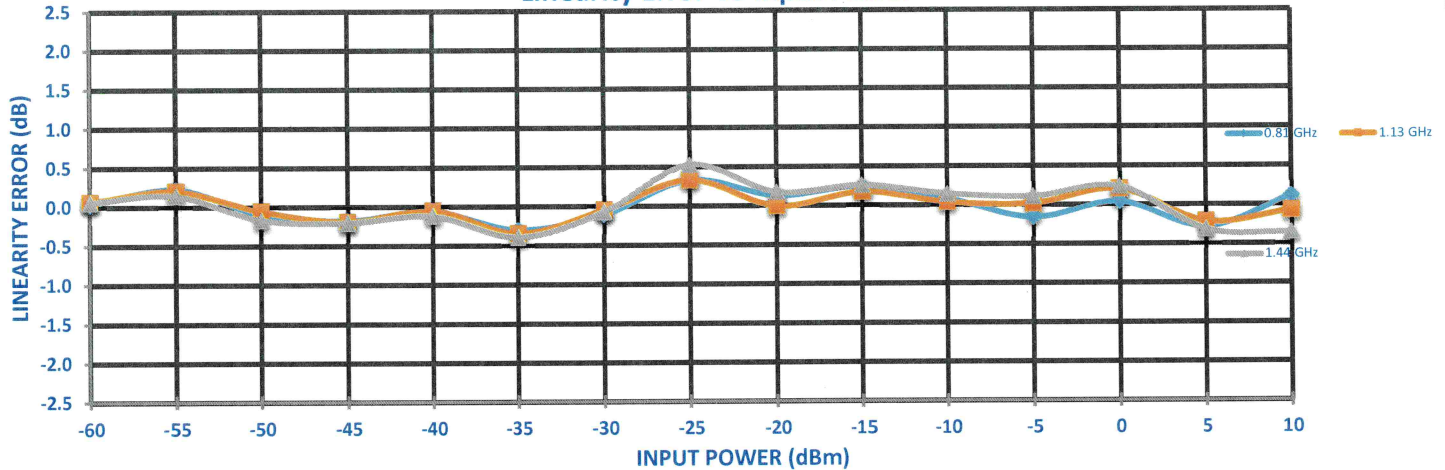
Vos= -0.012

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)	89 219 336 459 587 706 836 972 1092 1220 1341 1460 1590 1707 1842															Measured Value (mV)
	SLOPE (mV/dB)	1 6 -2 -4 -2 -8 -3 8 3 6 2 -4 1 -7 3															Error (mV)
		0.03 0.23 -0.10 -0.18 -0.06 -0.30 -0.11 0.33 0.13 0.25 0.08 -0.16 0.04 -0.29 0.11															LINEARITY ERROR (dB)
X																	
1.13 GHz	INTERCEPT (mV)	92 221 340 462 591 709 842 977 1094 1224 1346 1471 1601 1716 1845															Measured Value (mV)
	SLOPE (mV/dB)	1 5 -1 -5 -1 -9 -1 8 0 4 1 0 5 -5 -2															Error (mV)
		0.06 0.20 -0.06 -0.19 -0.05 -0.35 -0.05 0.33 -0.01 0.17 0.04 0.02 0.20 -0.22 -0.08															LINEARITY ERROR (dB)
X																	
1.44 GHz	INTERCEPT (mV)	85 213 331 456 584 703 837 978 1095 1223 1346 1471 1600 1712 1837															Measured Value (mV)
	SLOPE (mV/dB)	1 4 -4 -5 -3 -10 -2 13 4 7 4 3 6 -8 -9															Error (mV)
		0.06 0.14 -0.17 -0.21 -0.12 -0.40 -0.07 0.53 0.17 0.26 0.14 0.11 0.23 -0.32 -0.35															LINEARITY ERROR (dB)
X																	
Flatness +/-dB		0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	

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: PL54831
 TEST TEMP: -54C



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Vos= -0.016

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)	1543
	SLOPE (mV/dB)	24.3

91	211	324	443	572	686	812	945	1062	1185	1304	1420	1547	1660	1782
5	3	-5	-8	0	-7	-3	9	4	6	3	-2	4	-5	-4
0.19	0.13	-0.21	-0.31	0.00	-0.31	-0.12	0.36	0.18	0.24	0.14	-0.08	0.15	-0.20	-0.17

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

1.13 GHz	INTERCEPT (mV)	1553
	SLOPE (mV/dB)	24.2

102	221	337	456	585	697	823	952	1068	1191	1312	1436	1560	1672	1786
4	2	-3	-6	2	-7	-2	5	0	2	2	5	7	-2	-9
0.17	0.07	-0.14	-0.23	0.09	-0.29	-0.10	0.23	0.01	0.08	0.07	0.19	0.30	-0.08	-0.38

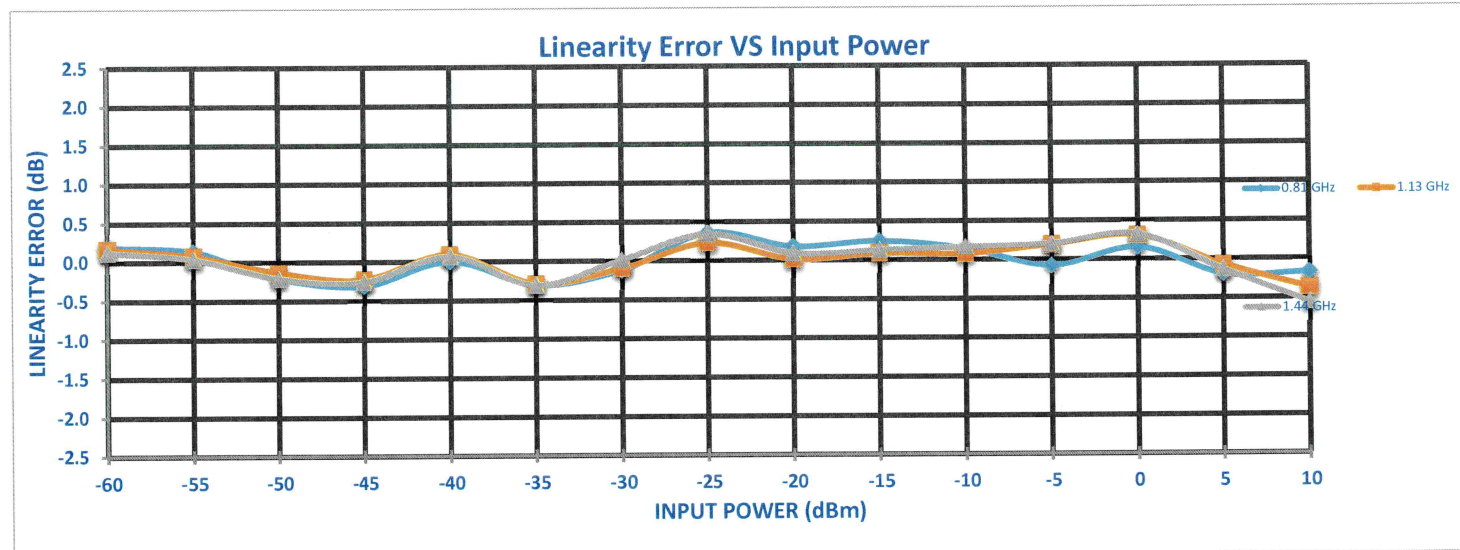
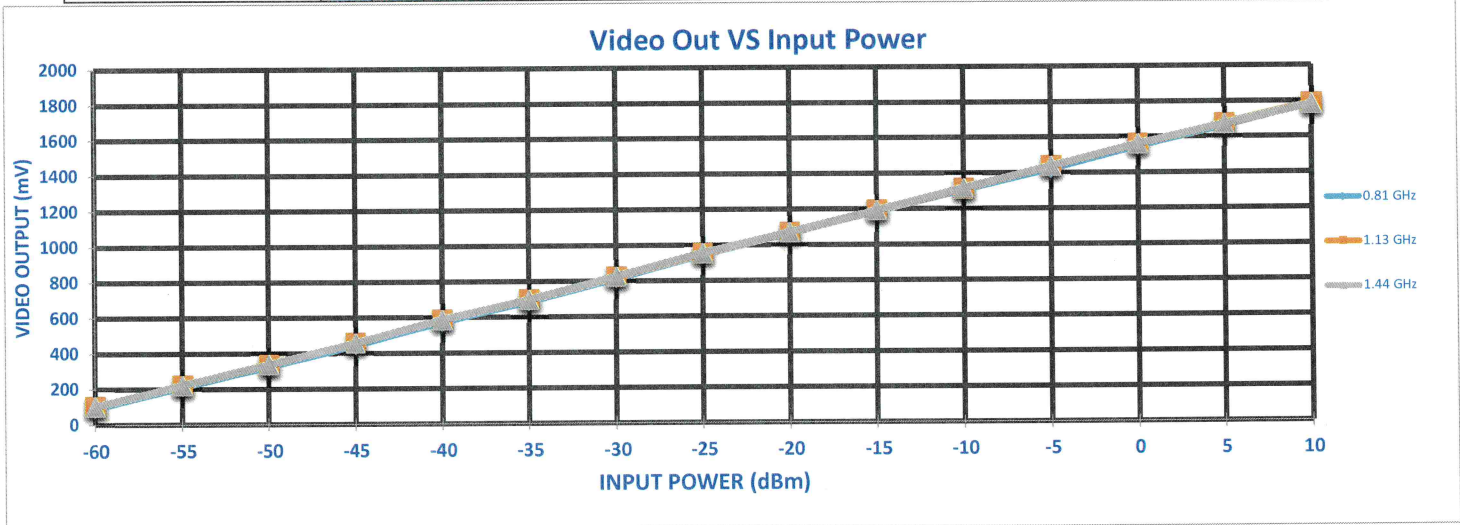
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

1.44 GHz	INTERCEPT (mV)	1552
	SLOPE (mV/dB)	24.2

102	221	336	456	585	697	826	955	1070	1192	1314	1436	1560	1670	1781
3	1	-5	-6	2	-8	0	8	2	3	4	5	8	-3	-13
0.12	0.04	-0.22	-0.26	0.06	-0.31	0.02	0.34	0.09	0.13	0.16	0.20	0.32	-0.14	-0.55

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

Flatness +/-dB	0.2	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.1	0.2	0.3	0.3	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: PL54831
 TEST TEMP: +85C



PLANAR MONOLITHICS INDUSTRIES
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Vos= 0.025

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)	1662
	SLOPE (mV/dB)	25.8

126	255	372	491	625	749	884	1028	1150	1279	1407	1530	1664	1787	1926
10	10	-2	-12	-7	-11	-5	10	3	3	2	-4	2	-4	6
0.38	0.39	-0.07	-0.46	-0.26	-0.45	-0.21	0.38	0.11	0.12	0.09	-0.14	0.06	-0.17	0.23

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

1.13 GHz	INTERCEPT (mV)	1668
	SLOPE (mV/dB)	25.8

132	261	378	497	631	753	888	1032	1153	1283	1411	1541	1674	1794	1927
10	11	-1	-11	-6	-13	-7	8	0	2	1	2	6	-3	1
0.40	0.41	-0.05	-0.43	-0.23	-0.50	-0.26	0.32	0.02	0.06	0.03	0.07	0.23	-0.11	0.05

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

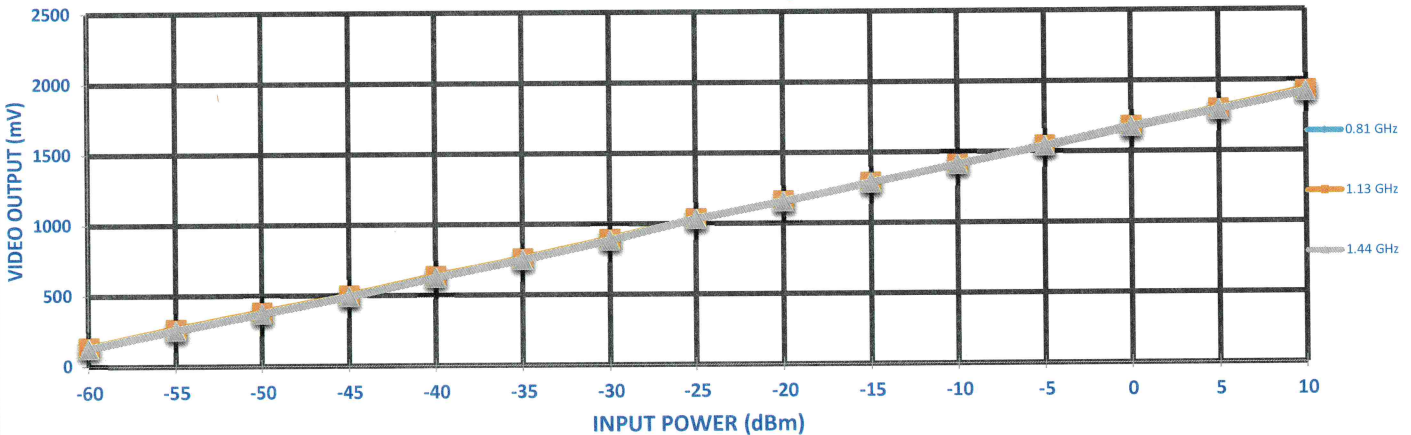
1.44 GHz	INTERCEPT (mV)	1664
	SLOPE (mV/dB)	25.8

126	252	369	490	622	746	881	1031	1152	1281	1410	1538	1672	1788	1916
12	9	-4	-12	-9	-14	-8	13	5	4	4	3	8	-5	-6
0.45	0.33	-0.14	-0.45	-0.34	-0.54	-0.31	0.49	0.18	0.17	0.17	0.12	0.31	-0.20	-0.24

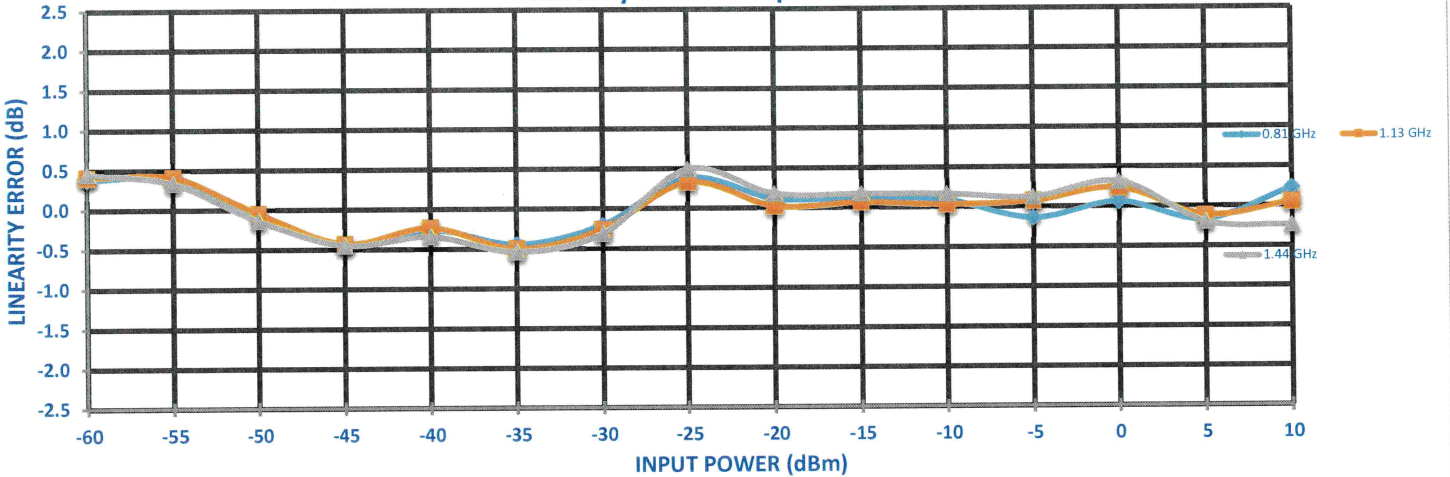
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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



Linearity Error VS Input Power



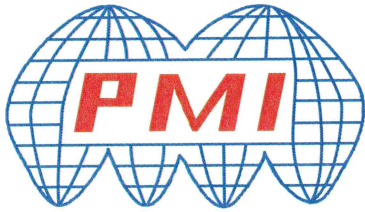
SIZE
A
SCALE

CAGE CODE
71A34

DWG. NO.
27641800

REVISION A2

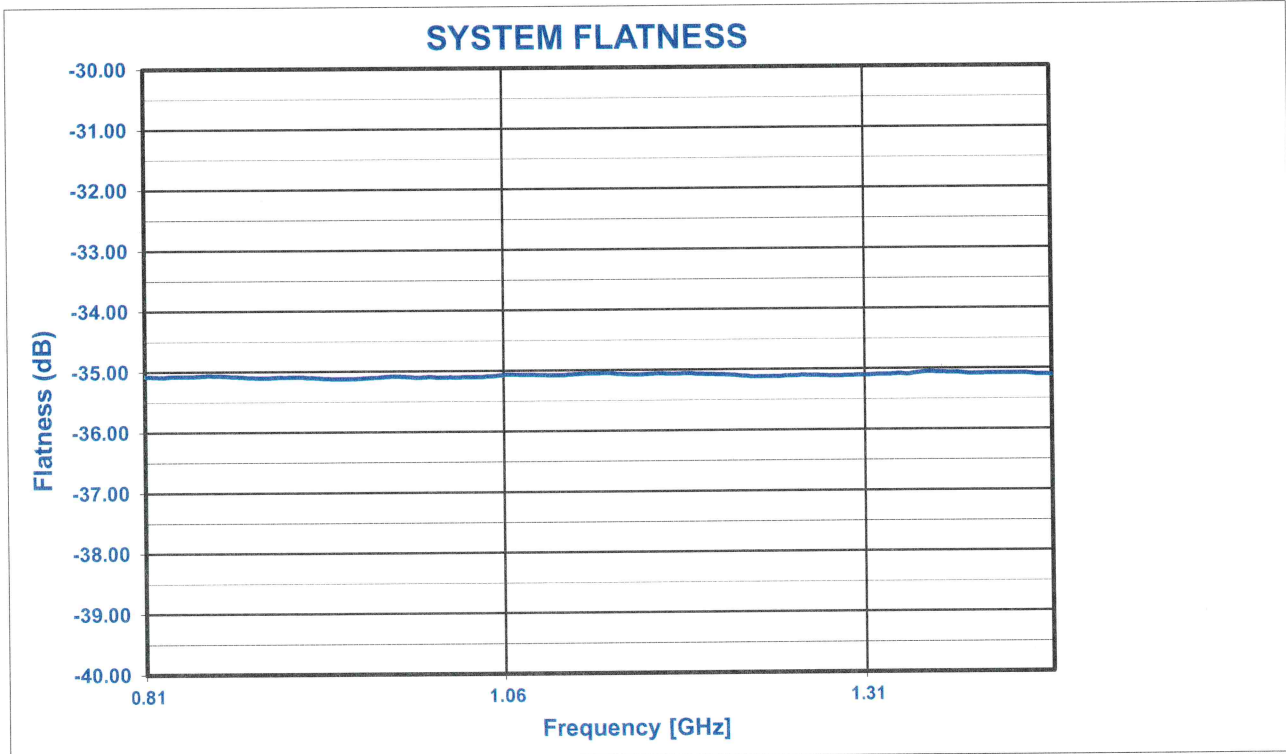
SHEET 7 OF 10



SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54831

Temperature: +25C



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

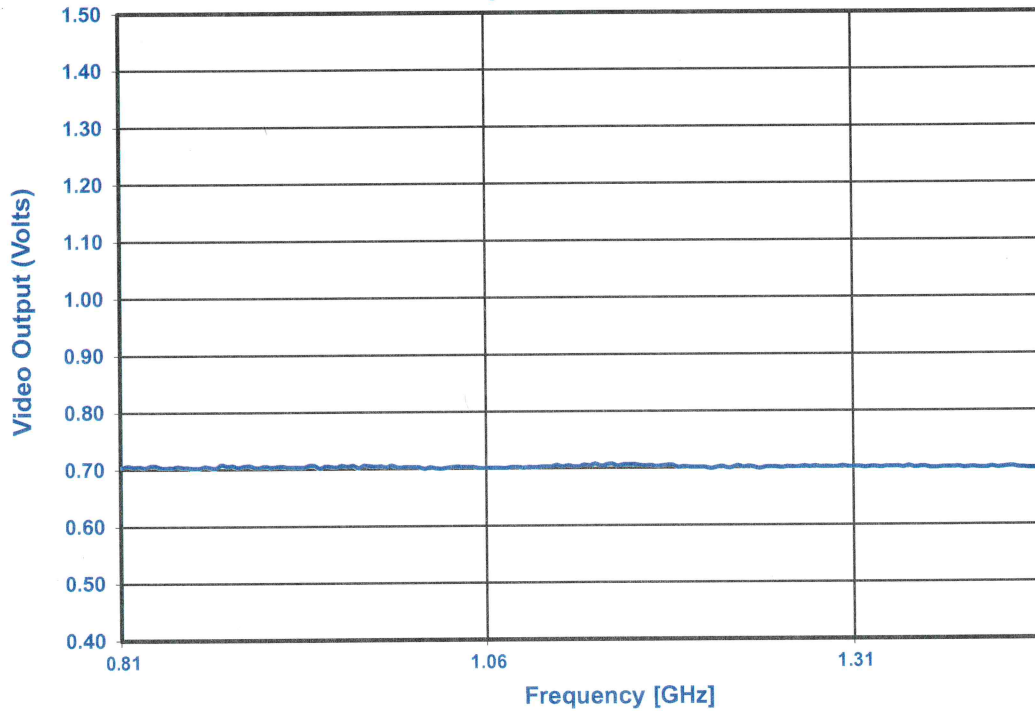


**SUMMARY TEST DATA
ON
HADA-D2002**

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54831

Temperature: +25C

Video Output Flatness Graph



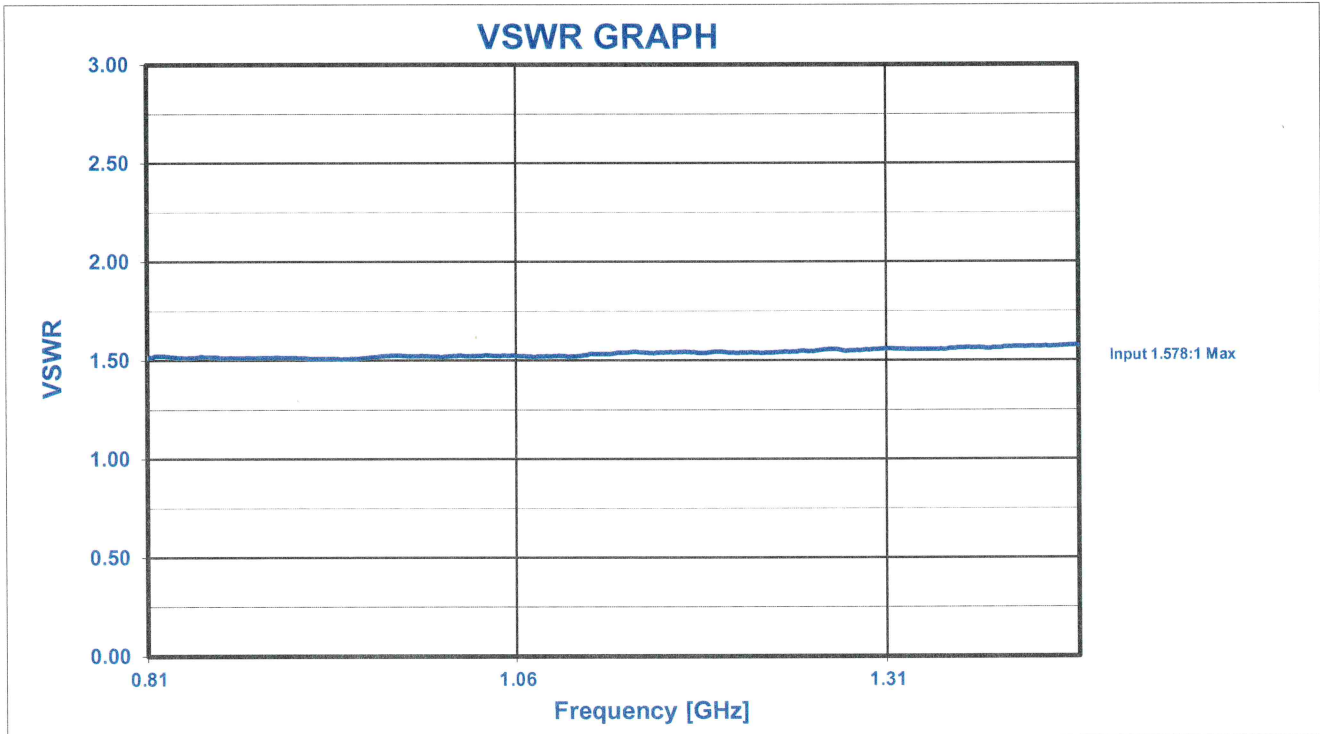
	SIZE	CAGE CODE	DWG. NO.	REVISION A2
	A	71A34	27641800	
	SCALE			SHEET 9 OF 10




SUMMARY TEST DATA ON HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54831

Temperature: +25C



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