MODEL: GMDA-D1005-08R11R44 **S/N: PL54836** **DATE: 8/29/2025**

NOTE: ALL VIDEO OUTPUT MEASUREMENTS ARE MADE WITH 75 OHMS VIDEO LOAD

1. TSS

Specification: -65dBm Maximum
Measurement @ 1.44GHz, 2uS PW, 100KHz PRF

TSS -68.1 dBm Pass ___X___ Fail _____

2. LOG SLOPE AND LINEARITY

Video Load Measured: 74.9 Ohms
Video Cable Measured: 0.3 Ohms

Specification: Log slope 25+/- 1mV / dB

Log Linearity +/-1.0 dB Max. @ 25 deg C (Room Temp)
+/-1.5 dB Over Temperature

Measurement: Logging Range = -60dBm to +10dBm

@ 25 deg C (See attached Plot)

Frequency (GHz)	Log Slope (mV / dB)	Log linearity (dB)	Pass	Fail
0.81	25.0	-0.42	X	
1.125	25.0	-0.42	X	
1.44	25.0	-0.43	X	

@ -54 deg C (See attached Plot)

Frequency (GHz)	Log Slope (mV / dB)	Log linearity (dB)	Pass	Fail
0.81	24.3	-0.51	X	
1.125	24.3	-0.59	X	
1.44	24.2	-0.69	X	

@ +85 deg C (See attached Plot)

Frequency (GHz)	Log Slope (mV / dB)	Log linearity (dB)	Pass	Fail
0.81	25.4	0.34	X	
1.125	25.3	-0.33	X	
1.44	25.4	-0.37	X	

MODEL: GMDA-D1005-08R11R44 **S/N: PL54836** **DATE:** **8/29/2025**

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3. FLATNESS

Specification: 50mV Max
Measurement: @-35dBm Input

System Flatness = 0.21 dB (See attached plot)
Vp-p = 30 mV (See attached plot)
Flatness = Vp-p – (System Flatness x 25)
Flatness = 24.775 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: 1.595:1 Pass ___X___ Fail _____

6. VIDEO RISE TIME

Specification: 30ns Max
Measurement: Freq = 1.125 GHz, RF Input –35dBm, PW = 1us, PRF 100KHz

Rise Time: 15.8ns Pass ___X___ Fail _____

7. LEADING AND TRAILINGE 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: 96.8ns Pass ___X___ Fail _____

MODEL: GMDA-D1005-08R11R44 **S/N: PL54836** **DATE:** **8/29/2025**

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: -11 mV Pass X Fail _____

-54 C Measurement: 26 mV Pass X Fail _____

85 C Measurement: 20 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. Klaumann Date: 9-29-25

LOG TRANSFER WITH FREQUENCY
MODEL: GMDA-D1005-08R11R44
TESTED BY: Joshua Monley.
TEST DATE: 08/28/2025
SERIAL NO: PL54836
TEST TEMP: +25C

PLANAR MONOLITHICS INDUSTRIES
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El Dorado Hills, CA 95762
Phone: 916-542-1401 Fax: 301-662-1731
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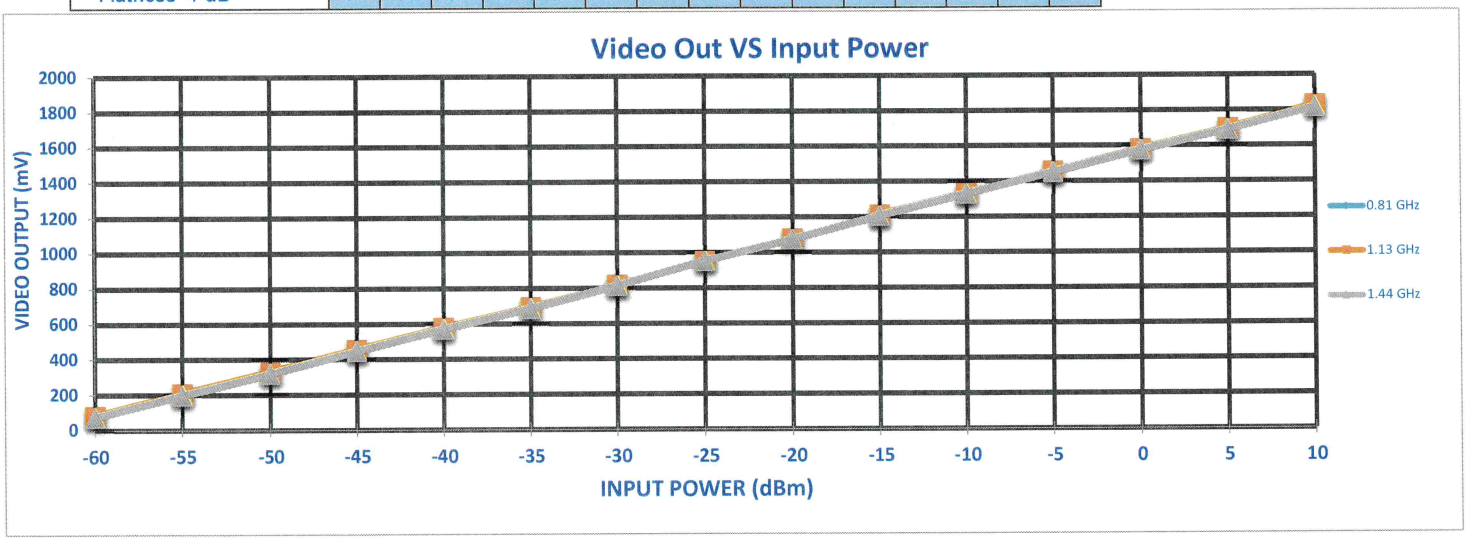
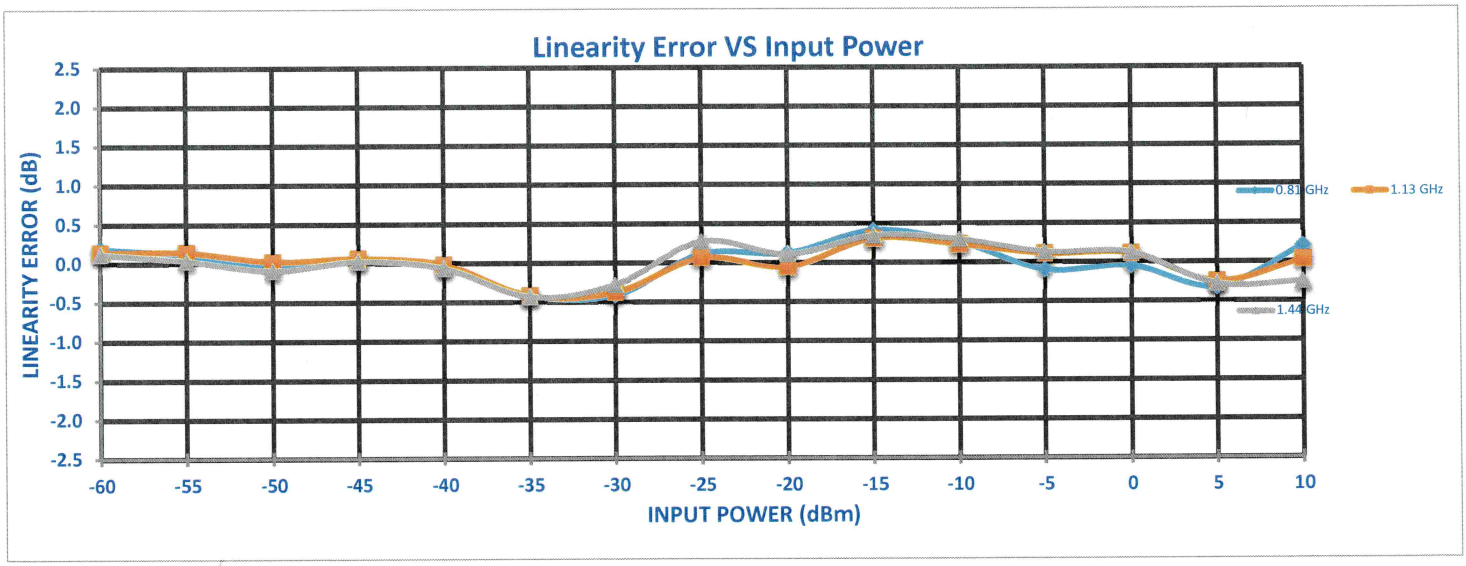
Vos= -0.011

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)	1571	78	201	322	449	571	687	812	950	1075	1207	1328	1444	1570	1688	1826	Measured Value (mV)
	SLOPE (mV/dB)	25.0	5	3	-1	1	-2	-11	-10	3	3	10	6	-3	-1	-8	5	Error (mV)
			0.18	0.11	-0.04	0.04	-0.07	-0.42	-0.42	0.11	0.12	0.41	0.25	-0.10	-0.05	-0.33	0.20	LINEARITY ERROR (dB)
1.13 GH	INTERCEPT (mV)	1574	78	203	325	451	574	689	815	951	1073	1207	1330	1452	1577	1693	1825	Measured Value (mV)
	SLOPE (mV/dB)	25.0	3	3	0	1	-1	-11	-10	1	-2	8	6	3	3	-6	1	Error (mV)
			0.13	0.13	0.02	0.06	-0.02	-0.42	-0.38	0.06	-0.06	0.30	0.22	0.10	0.10	-0.26	0.02	LINEARITY ERROR (dB)
1.44 GH	INTERCEPT (mV)	1571	72	195	317	445	568	684	813	952	1073	1204	1328	1449	1574	1689	1815	Measured Value (mV)
	SLOPE (mV/dB)	25.0	3	1	-2	0	-2	-11	-7	7	3	8	7	3	3	-7	-6	Error (mV)
			0.12	0.03	-0.10	0.02	-0.07	-0.43	-0.28	0.27	0.11	0.34	0.29	0.13	0.12	-0.29	-0.25	LINEARITY ERROR (dB)
Flatness +/-dB			0.1	0.2	0.2	0.1	0.1	0.1	0.1	0	0	0.1	0	0.2	0.1	0.1	0.2	





LOG TRANSFER WITH FREQUENCY
MODEL: GMDA-D1005-08R11R44
TESTED BY: Joshua Monley.
TEST DATE: 08/28/2025
SERIAL NO: PL54836
TEST TEMP: -54C

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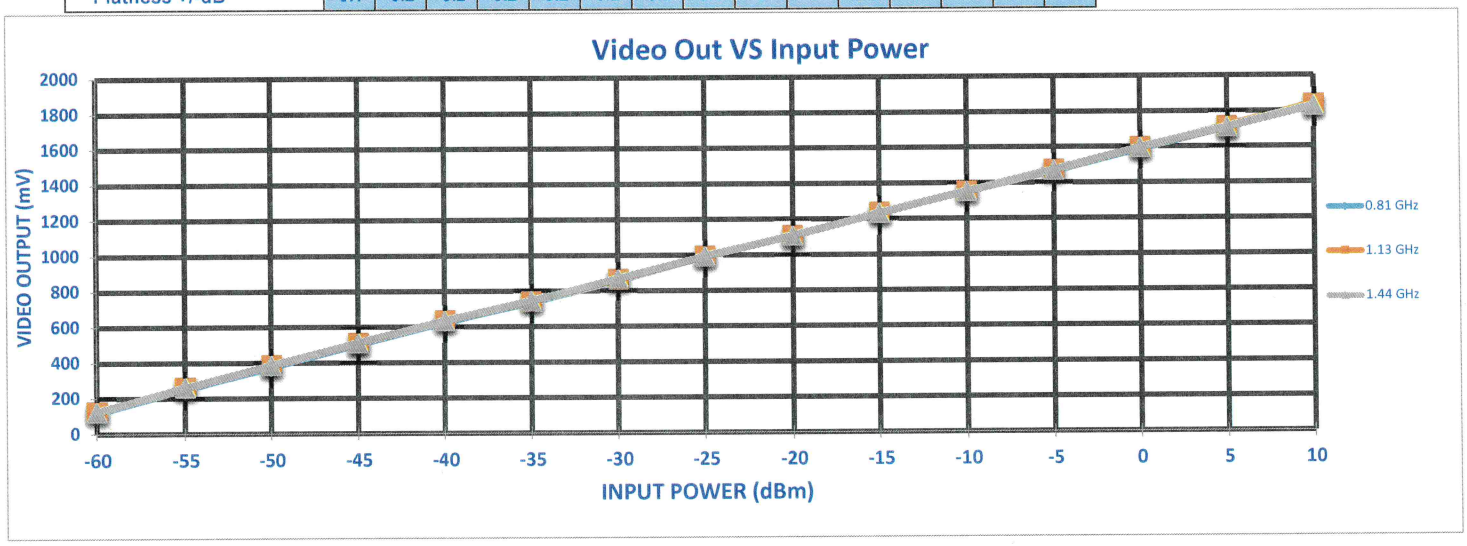
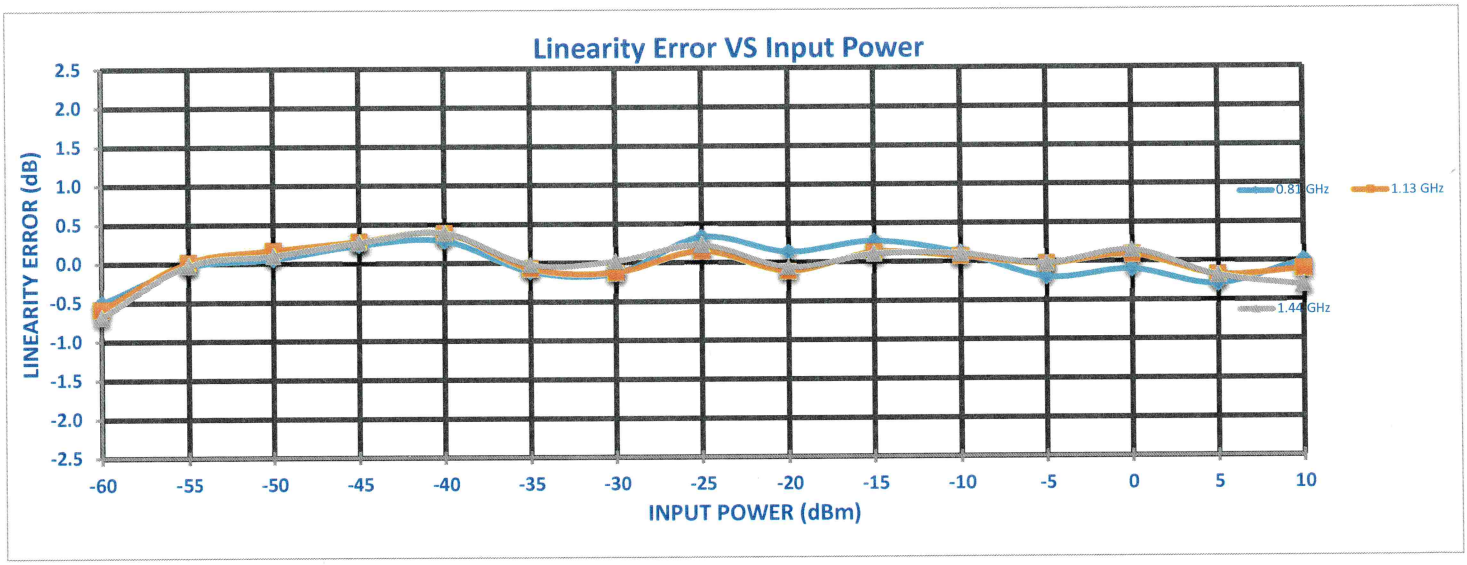
Vos= 0.026

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)	1590	117	250	374	500	623	735	856	989	1106	1231	1349	1463	1587	1704	1833	Measured Value (mV)
	SLOPE (mV/dB)	24.3	-12	-1	1	6	7	-3	-3	8	3	6	3	-5	-3	-7	0	Error (mV)
			-0.51	-0.04	0.05	0.23	0.28	-0.11	-0.14	0.32	0.13	0.27	0.11	-0.20	-0.11	-0.30	0.00	LINEARITY ERROR (dB)
1.13 GH	INTERCEPT (mV)	1594	124	260	385	509	633	743	863	991	1106	1233	1353	1472	1596	1711	1834	Measured Value (mV)
	SLOPE (mV/dB)	24.3	-14	0	4	7	9	-2	-3	3	-3	3	2	-1	2	-4	-3	Error (mV)
			-0.59	0.01	0.16	0.28	0.39	-0.08	-0.13	0.14	-0.12	0.12	0.06	-0.03	0.08	-0.18	-0.11	LINEARITY ERROR (dB)
1.44 GH	INTERCEPT (mV)	1592	123	260	384	509	633	744	866	992	1106	1231	1352	1470	1595	1708	1826	Measured Value (mV)
	SLOPE (mV/dB)	24.2	-17	-1	2	6	9	-1	0	5	-2	2	2	-1	3	-5	-8	Error (mV)
			-0.69	-0.03	0.10	0.26	0.39	-0.03	0.02	0.22	-0.07	0.10	0.10	-0.02	0.14	-0.19	-0.31	LINEARITY ERROR (dB)
Flatness +/-dB			0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0	0	0.1	0.2	0.2	0.1	0.2	





LOG TRANSFER WITH FREQUENCY
MODEL: GMDA-D1005-08R11R44
TESTED BY: Joshua Monley.
TEST DATE: 08/28/2025
SERIAL NO: PL54836
TEST TEMP: +85C

PLANAR MONOLITHICS INDUSTRIES
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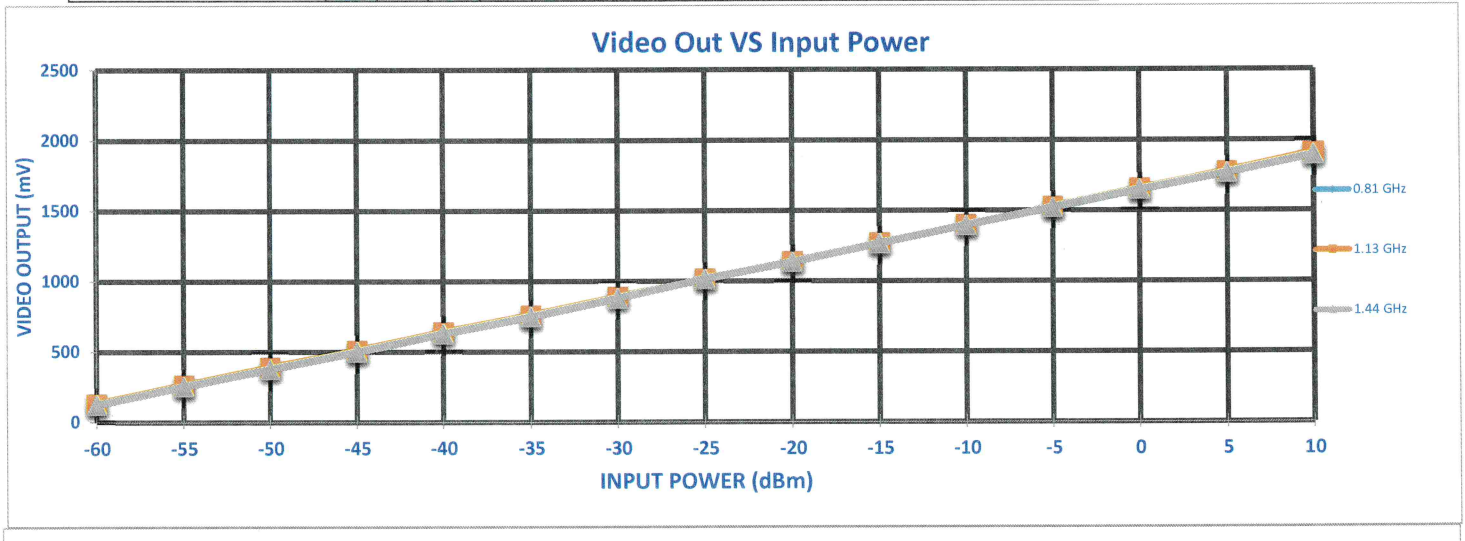
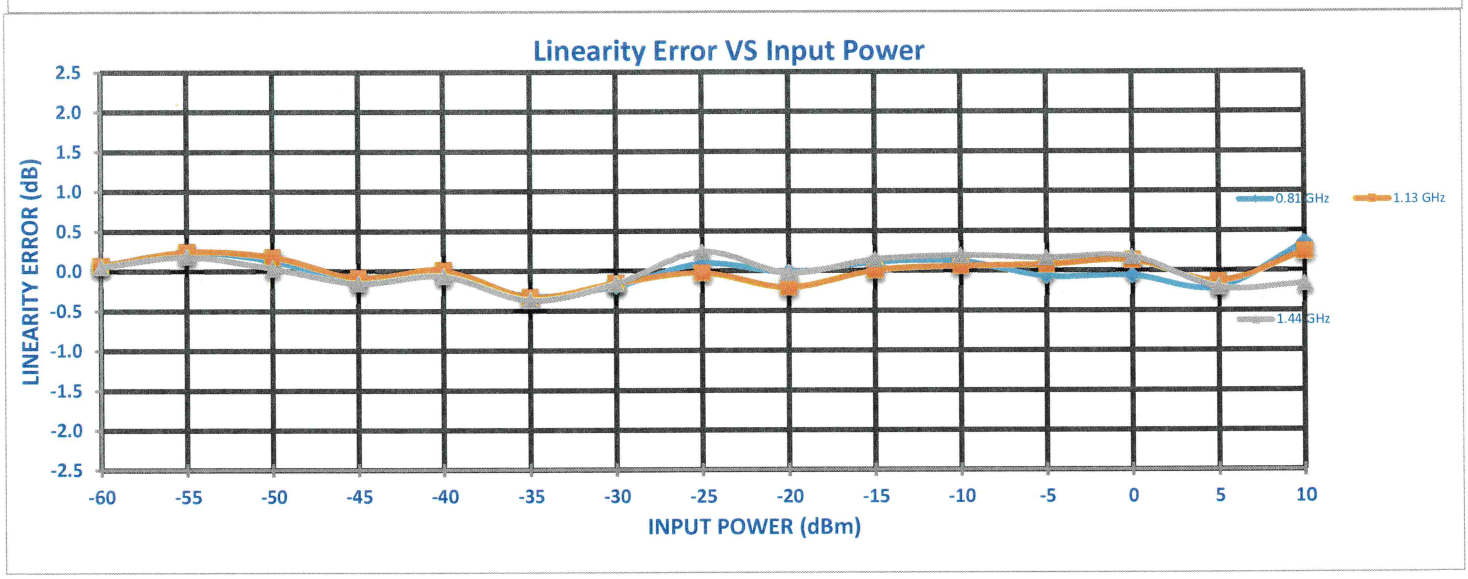
Vos= 0.020

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)	1642	122	253	377	497	626	746	876	1010	1134	1264	1391	1513	1640	1763	1904	Measured Value (mV)
	SLOPE (mV/dB)	25.4	2	6	3	-4	-1	-8	-5	2	-1	3	3	-2	-2	-5	9	Error (mV)
			0.07	0.24	0.13	-0.14	-0.05	-0.32	-0.19	0.09	-0.02	0.11	0.11	-0.08	-0.07	-0.22	0.34	LINEARITY ERROR (dB)
1.13 GH	INTERCEPT (mV)	1647	129	260	385	505	634	752	883	1013	1135	1267	1395	1522	1650	1770	1906	Measured Value (mV)
	SLOPE (mV/dB)	25.3	2	6	4	-2	0	-8	-4	-1	-5	0	1	2	3	-4	6	Error (mV)
			0.07	0.24	0.17	-0.09	0.01	-0.33	-0.16	-0.03	-0.21	0.00	0.05	0.07	0.12	-0.14	0.23	LINEARITY ERROR (dB)
1.44 GH	INTERCEPT (mV)	1642	122	252	375	497	626	745	877	1014	1134	1265	1393	1519	1646	1763	1891	Measured Value (mV)
	SLOPE (mV/dB)	25.4	1	5	1	-4	-2	-9	-4	6	-1	4	5	4	4	-5	-4	Error (mV)
			0.05	0.18	0.03	-0.16	-0.07	-0.37	-0.17	0.24	-0.03	0.14	0.19	0.16	0.17	-0.21	-0.17	LINEARITY ERROR (dB)
	Flatness +/-dB		0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0	0.1	0.1	0.2	0.2	0.1	0.3	



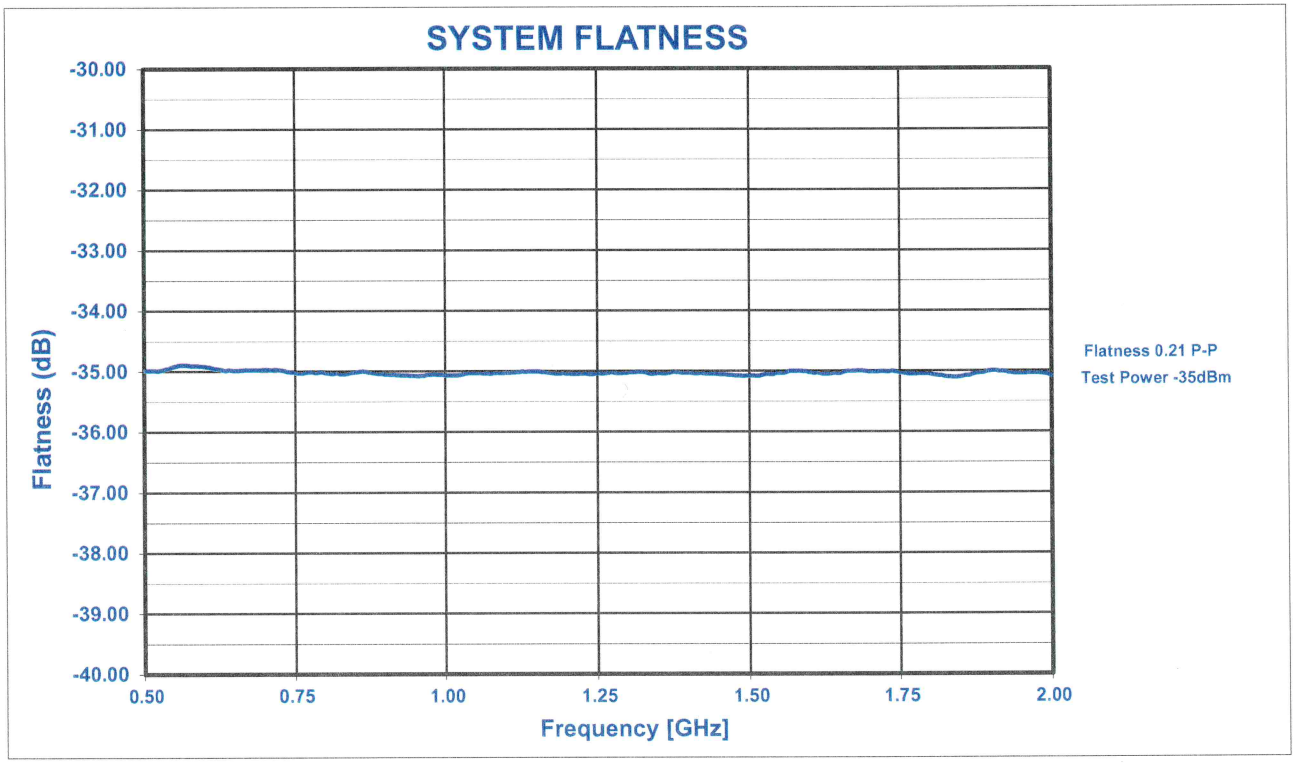


PMI	SIZE A	CAGE CODE 71A34	DWG. NO. 27641800	REVISION A2
	SCALE			SHEET 7 OF 10

SUMMARY TEST DATA
ON
HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54836

Temperature: +25C



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

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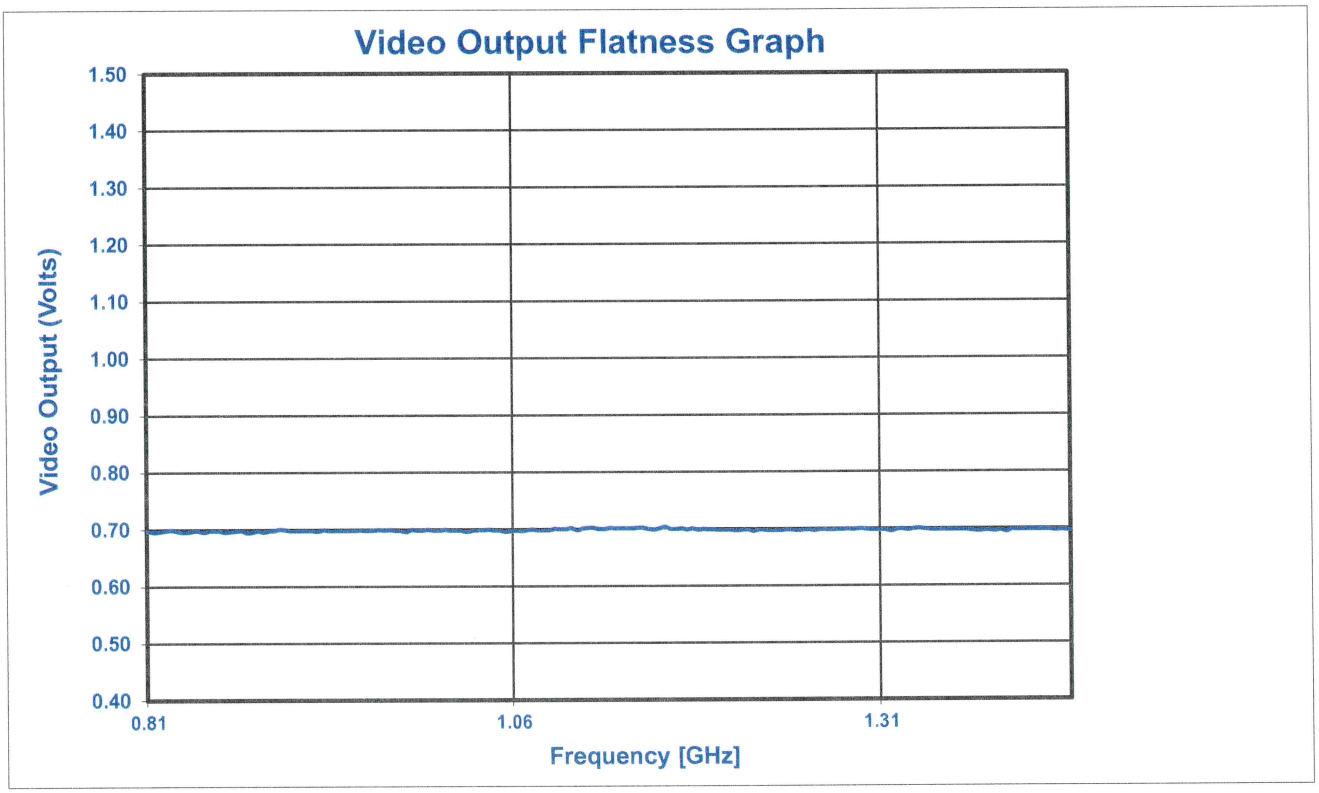
SUMMARY TEST DATA
ON
HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54836

Temperature: +25C



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

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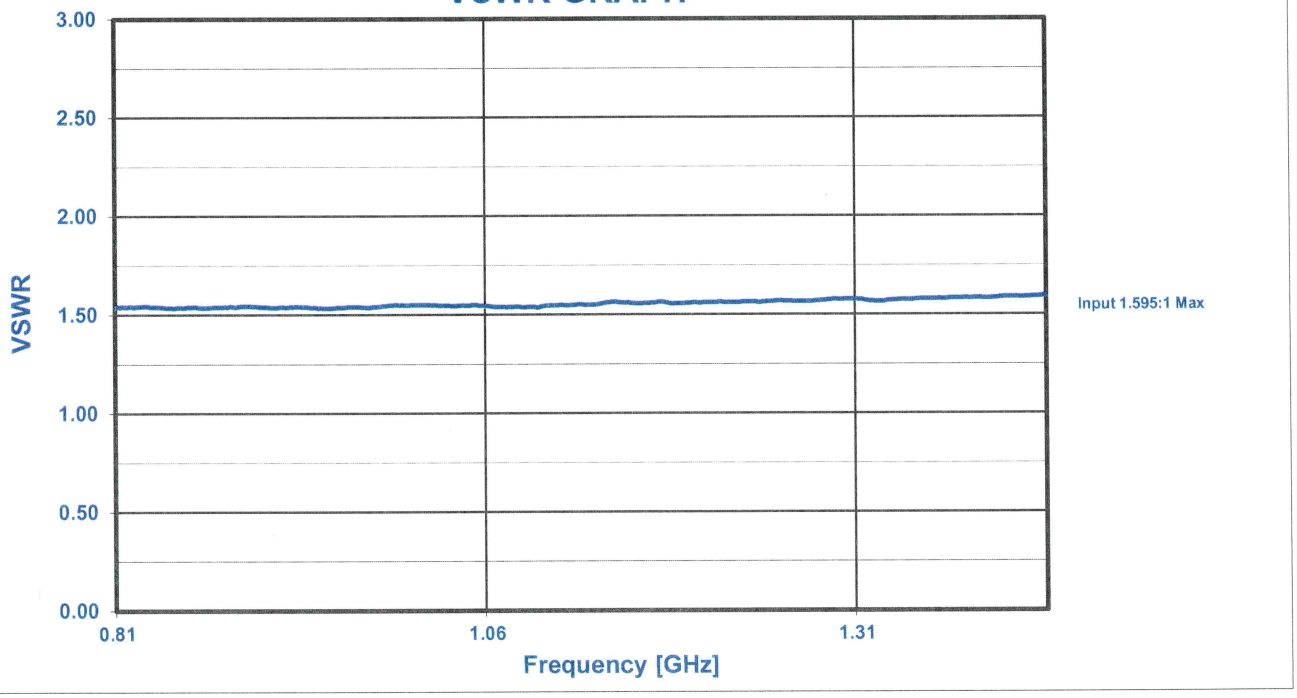
Email: sales@pmi-rf.com

SUMMARY TEST DATA
ON
HADA-D2002

Model Number: GMDA-D1005-08R11R44
Serial Number: PL54836

Temperature: +25C

VSWR GRAPH



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

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