SUMMARY TEST DATA
ON
SDLVA-0120-70 OPT 100M2G, 10DBM Rev. B

PL26759/1942

Customer:		Tested By:	Simon K.
SO No:		Temperature:	+25°C
Model No:	SDLVA-0120-70 OPT 100M2G, 10DBM Rev. B	Date:	10/14/19
Serial No:	PL26759/1942	Drawing No:	27609489 Rev: A2

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	FREQUENCY RANGE	0.1 TO 2.0 GHz	0.1 TO 2.0 GHz	PMI QA 1
2	DYNAMIC RANGE	70 dB MINIMUM, 75 dB TYPICAL	SEE PLOTS	
3	LOG LINEARITY @ -65 TO +5 dBm (250MHz to 2GHz)	± 2.0 dB Max	+0.73 / -1.30 dB	
4	LOG LINEARITY @ -50 TO +5 dBm (100MHz to 250MHz)	± 2.0 dB Max	+0.41 / -0.56 dB	
5	LOGGING RANGE	-65 dBm MINIMUM +5 dBm MAXIMUM	(SEE PLOTS)	
6	INPUT VSWR	2.0:1 MAXIMUM 1.8:1 TYPICAL	1.27:1	
7	TSS	-65 dBm (-70 dBm TYPICAL)	-66 dBm (SEE PLOTS)	
8	LIMITED IF OUTPUT	+10 dBm TYPICAL	8.7 dBm (SEE PLOTS)	
9	MAXIMUM OUTPUT VOLTAGE	2.7 V MAXIMUM	1.855 V (SEE PLOTS)	
10	RISE TIME	25 nsec MAXIMUM	SEE TYPICAL CHARACTERISTICS	
11	FALL TIME	30 nsec MAXIMUM	SEE TYPICAL CHARACTERISTICS	
12	SETTLING TIME	40 nsec MAXIMUM	SEE TYPICAL CHARACTERISTICS	PMI QA 1

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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13	DC OFFSET	0.1 V NOMINAL (ADJUSTABLE)	PASS	PMI QA 1
14	LOG VIDEO SLOPE	25 mV/dB NOMINAL @ 1 GHz	24.1 mV/dB	
15	LOG VIDEO SLOPE VARIATION WITH FREQUENCY	± 0.5mV/dB TYPICAL (OVER 80 MHz RF BANDWIDTH)	SEE TYPICAL CHARACTERISTICS	
16	LOG VIDEO SLOPE VARIATION WITH TEMPERATURE	± 0.5mV/dB TYPICAL	SEE TYPICAL CHARACTERISTICS	
17	PROPAGATION DELAY	10 nS TYPICAL	SEE TYPICAL CHARACTERISTICS	
18	VIDEO LOAD	100 Ω ± 10%	100 Ω	
19	DC SUPPLY (NO LOAD)	+7 TO +18V @ 300mA Max -7 TO -18V @ 160mA Typ., 170mA Max	+7 TO +18V @ 118 mA -7 TO -18V @ 149 mA	PMI QA 1

QA/QC Approval: _____ PMI QA 1 Date: 10/16/19

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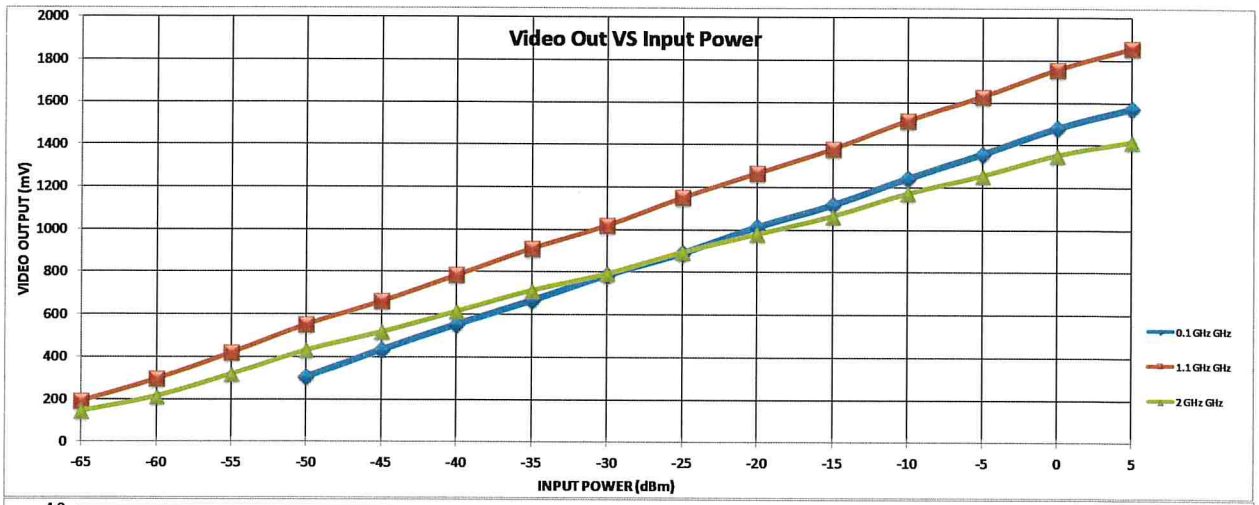
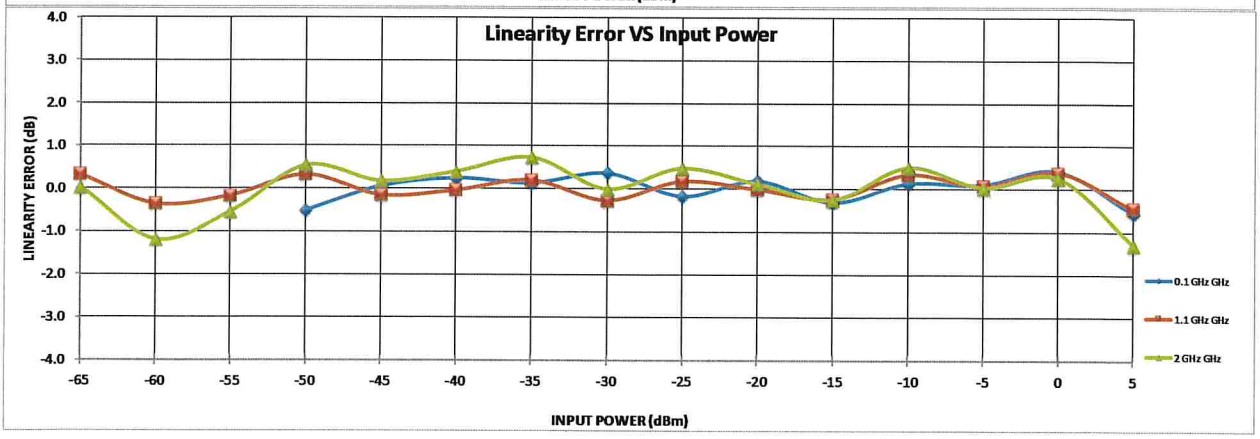
TRANSFER TUNING PLOT

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-0120-70 Opt. 100M2G, 10DBM
TESTED BY: Simon K.
TEST DATE: 10/11/19
SERIAL NO: PL26759
TEST TEMP: +25C

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Pkwy Ste 1
El Dorado Hills, CA 95762
Phone: (916)542-1401 Fax: (301)662-1731
EMAIL: SALES@PMI-RF.COM

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.1 GHz	INTERCEPT (mV)	1470				302	431	551	664	785	888	1012	1116	1242	1357	1480	1573	Measured Value (mV)
	SLOPE (mV/dB)	23.1				-12	1	6	3	8	-4	4	-8	3	2	10	-13	Error (mV)
						-0.52	0.05	0.24	0.13	0.36	-0.18	0.18	-0.33	0.12	0.10	0.41	-0.56	LINEARITY ERROR (dB)
1.1 GHz	INTERCEPT (mV)	1746	189	293	418	550	659	782	908	1017	1148	1264	1379	1513	1627	1755	1855	Measured Value (mV)
	SLOPE (mV/dB)	24.1	8	-9	-4	8	-4	-1	5	-7	4	0	-6	8	2	9	-11	Error (mV)
			0.31	-0.36	-0.17	0.31	-0.16	-0.05	0.19	-0.28	0.16	-0.02	-0.24	0.33	0.06	0.38	-0.46	LINEARITY ERROR (dB)
2 GHz	INTERCEPT (mV)	1348	142	212	317	430	516	613	712	791	893	979	1065	1172	1256	1353	1417	Measured Value (mV)
	SLOPE (mV/dB)	18.6	1	-22	-10	10	3	7	14	0	9	2	-5	9	1	5	-24	Error (mV)
			0.04	-1.19	-0.54	0.55	0.18	0.40	0.73	-0.01	0.48	0.11	-0.25	0.51	0.03	0.26	-1.30	LINEARITY ERROR (dB)





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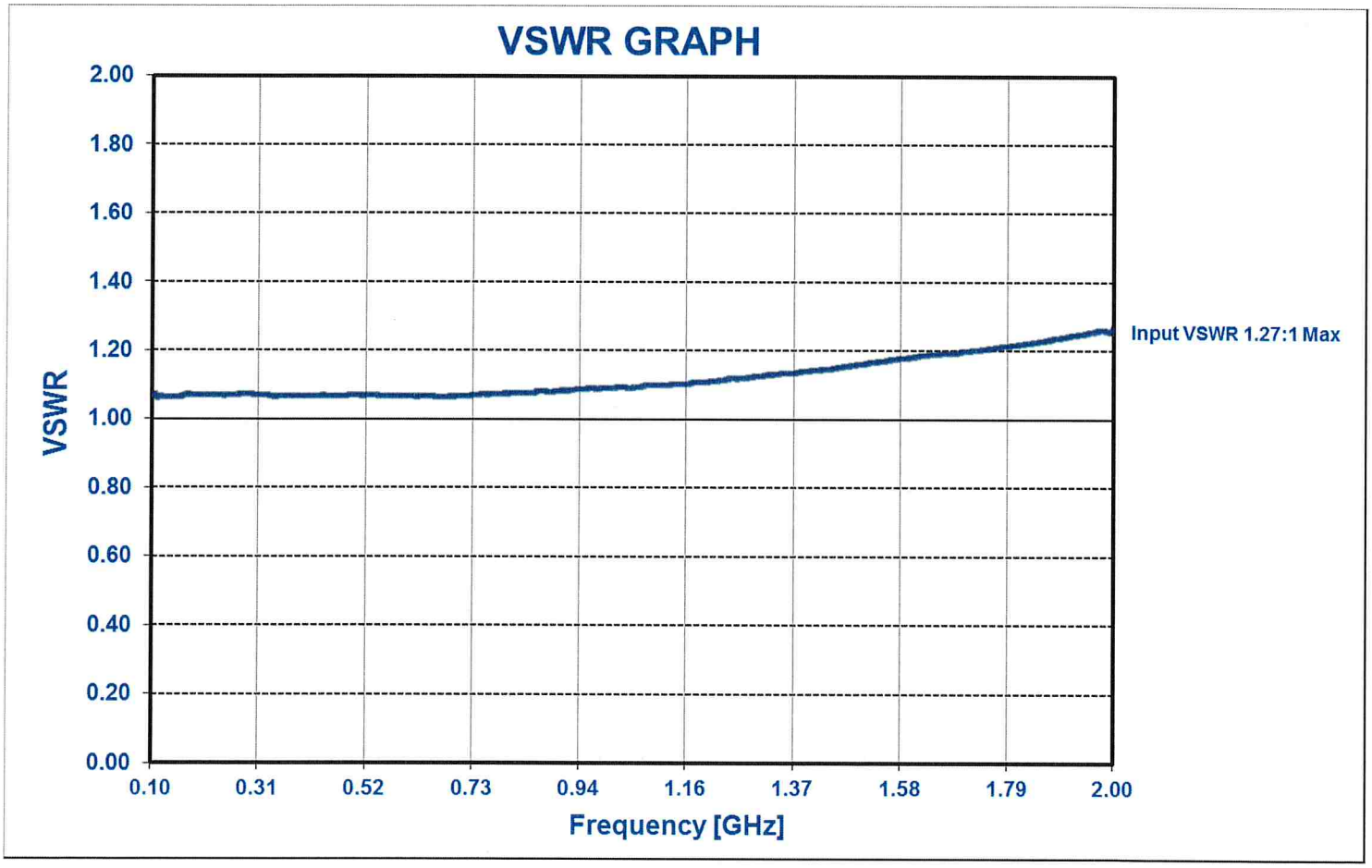
VSWR



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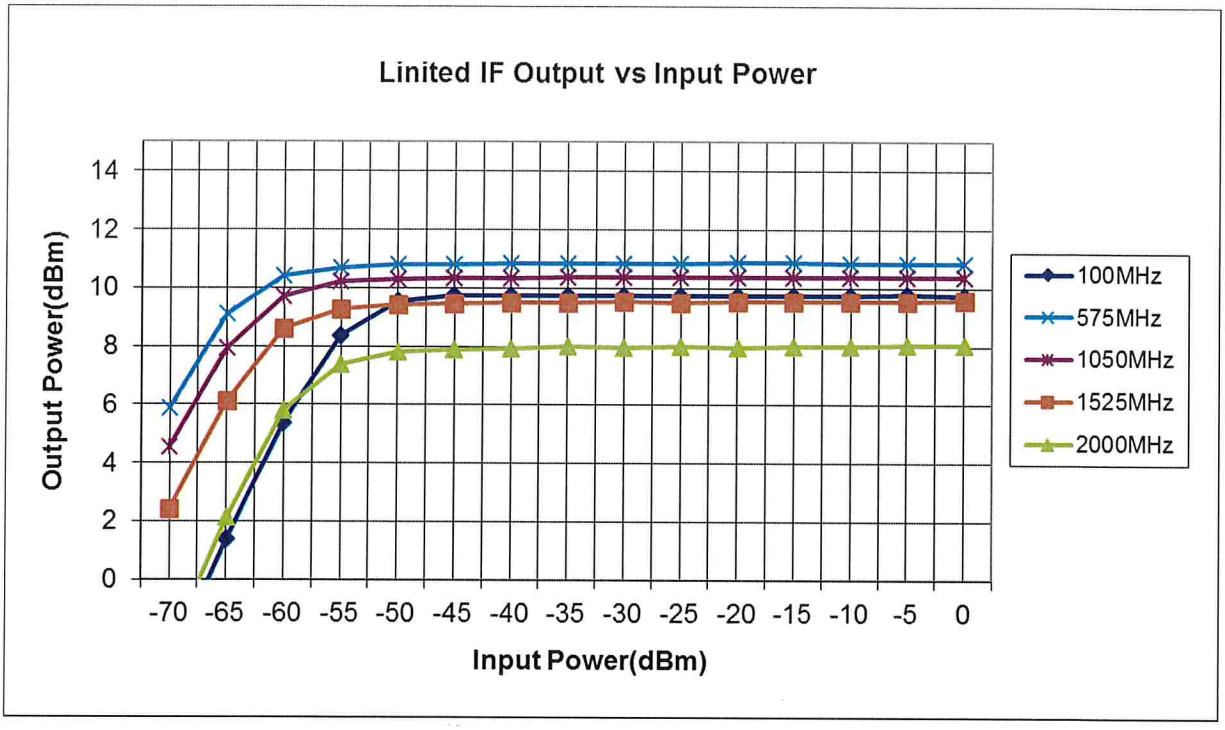
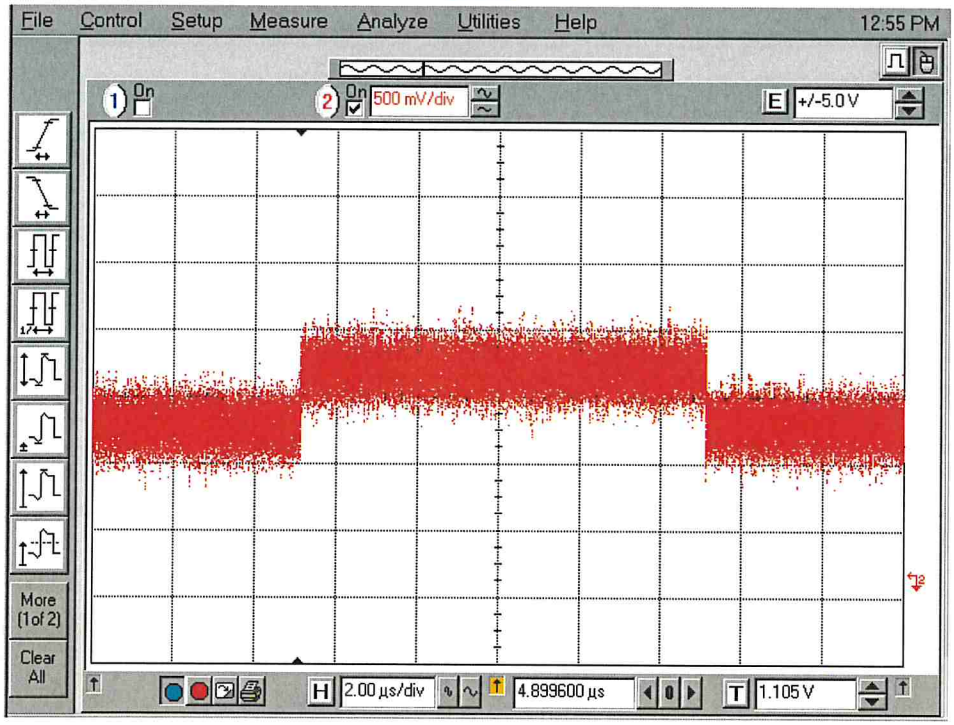
LIMITED IF OUTPUT



TSS



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