



**SUMMARY TEST DATA
ON
SDLVA-100M4G-CD-2**

Customer: _____	Tested By: <u>J. Boze</u>
SO No: _____	Temperature: <u>25°C</u>
Model No: <u>SDLVA-100M4G-CD-2</u>	Date: <u>12/23/21</u>
Serial No: <u>PL34427/2151</u>	Drawing No: <u>27619921</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	PASS FAIL	QA QC
1	Frequency Range:	100MHz to 4 GHz	100 MHz to 4 GHz	PMI QA3
2	RF Gain (Small Signal):	55 dB Typ @ -50 dBm	60 dB	
3	Video Flatness:	± 50 mV Max @ -45 dBm	± 42 mV See Plot	
4	TSS:	-73 dBm Typ -71 dBm Max	-74 dBm See Plot	
5	VSWR:	2.0:1 Max J1 VSWR	1.53:1 See Plot	
6	PSAT:	+13 dBm Typ	+13.7 dBm See Plot	
7	Power Input:	+17dBm CW Max	Pass	
8	Log Slope:	25 mV/dB Typ 50Ω Load	25.0 mV/dB Typ See Plot	
9	Log Range:	-70 to 0 dBm	-70 to 0 dBm	
10	Log Linearity	±2.5 dB	± 1.00 dB See Plot	
11	DC Offset:	50 ± 50 mV	38 mV	
12	Pulse Range:	100 ns to CW	Pass	
13	Rise Time:	30 ns Max	34.5 ns	
14	Recovery Time:	200 ns Max	195 ns	
15	Harmonics:	15 dBc Min -70 to 0 dBm	21.2 dBc	
16	DC Supply:	+15VDC @ 350 mA -15VDC @ 180 mA	+15 VDC @ 190 mA -15 VDC @ 60 mA	

QA/QC Approval: *R. Venter* Date: 1-3-22



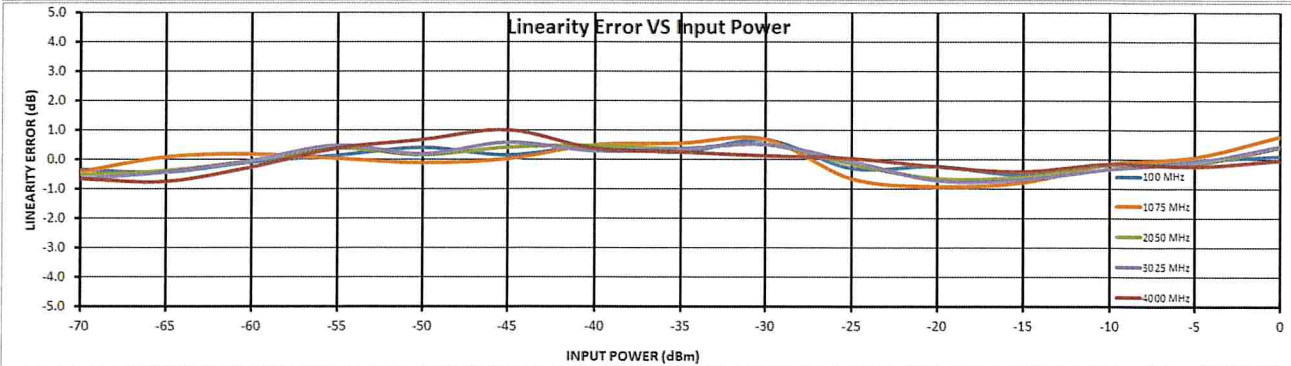
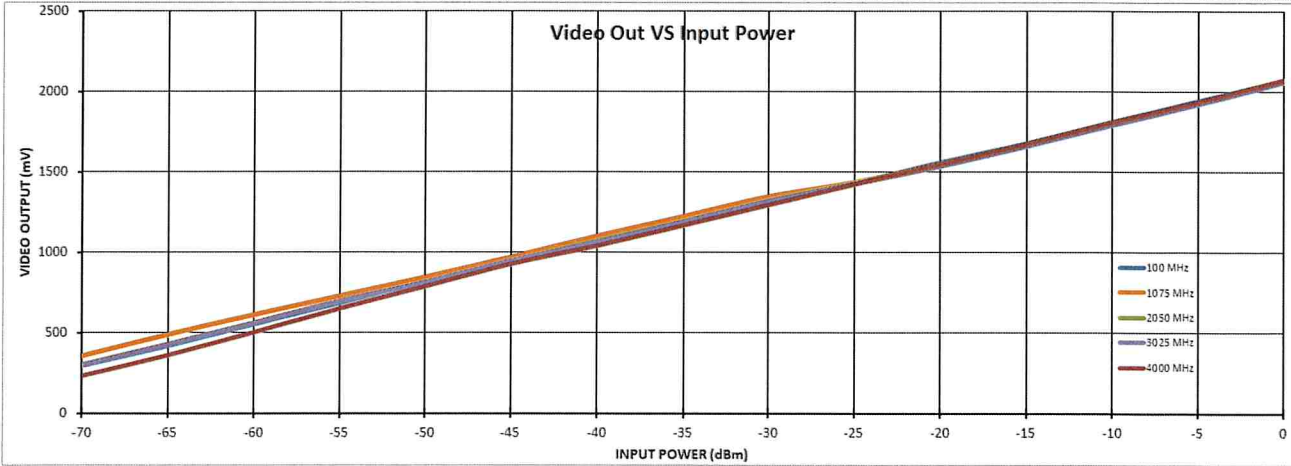
SUMMARY TEST DATA ON SDLVA-100M4G-CD-2

Model: SDLVA-100M4G-CD-2
Serial No: PL34427
Date: 12/23/21
Tested By: J. Boze
Test Temp: +25°C

LOG SLOPE / LINEARITY PLOT



Frequency		-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
100 MHz	INTERCEPT (mV)	294	418	553	685	818	938	1072	1193	1330	1432	1560	1679	1814	1944	2074	Measured Value (mV)
	SLOPE (mV/dB)	-9	-11	-2	3	10	4	11	6	17	-8	-6	-13	-5	-1	3	Error (mV)
	LIN. ERR. (dB)	-0.34	-0.44	-0.09	0.13	0.40	0.15	0.45	0.24	0.66	-0.30	-0.23	-0.52	-0.18	-0.03	0.11	LINEARITY ERROR (dB)
1075 MHz	INTERCEPT (mV)	353	486	609	726	843	967	1099	1221	1345	1433	1547	1671	1807	1933	2071	Measured Value (mV)
	SLOPE (mV/dB)	-10	2	5	1	-3	1	12	14	17	-16	-22	-19	-3	2	19	Error (mV)
	LIN. ERR. (dB)	-0.42	0.09	0.19	0.04	-0.11	0.03	0.51	0.56	0.70	-0.65	-0.92	-0.78	-0.14	0.08	0.80	LINEARITY ERROR (dB)
2050 MHz	INTERCEPT (mV)	299	427	560	695	814	945	1071	1193	1321	1429	1541	1667	1802	1927	2066	Measured Value (mV)
	SLOPE (mV/dB)	-13	-10	-1	9	4	10	12	9	13	-4	-16	-15	-4	-4	11	Error (mV)
	LIN. ERR. (dB)	-0.53	-0.39	-0.05	0.37	0.15	0.41	0.47	0.37	0.51	-0.15	-0.66	-0.60	-0.18	-0.16	0.42	LINEARITY ERROR (dB)
3025 MHz	INTERCEPT (mV)	295	425	559	696	813	947	1064	1190	1318	1428	1536	1661	1794	1924	2062	Measured Value (mV)
	SLOPE (mV/dB)	-16	-10	-1	12	5	15	7	9	13	-1	-17	-17	-8	-2	12	Error (mV)
	LIN. ERR. (dB)	-0.65	-0.42	-0.03	0.49	0.20	0.59	0.30	0.37	0.52	-0.05	-0.70	-0.67	-0.32	-0.09	0.47	LINEARITY ERROR (dB)
4000 MHz	INTERCEPT (mV)	230	358	501	648	786	925	1039	1166	1293	1421	1544	1670	1807	1935	2071	Measured Value (mV)
	SLOPE (mV/dB)	-17	-20	-7	10	17	26	10	6	3	1	-7	-11	-4	-6	-1	Error (mV)
	LIN. ERR. (dB)	-0.67	-0.76	-0.27	0.37	0.67	1.00	0.37	0.25	0.12	0.03	-0.25	-0.42	-0.16	-0.25	-0.03	LINEARITY ERROR (dB)
Avg. Slope: 25 mV/dB		2.5	2.6	2.2	1.6	1.1	0.8	1.2	1.1	1	0.2	0.5	0.4	0.4	0.4	0.2	Flatness dB: ±2.6 dB

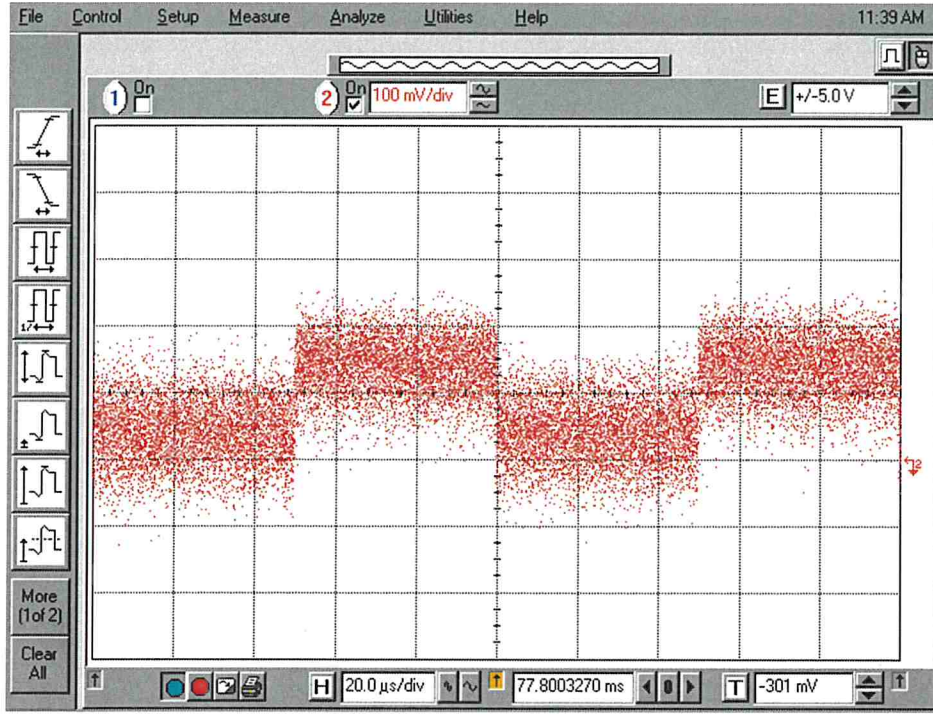


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**SUMMARY TEST DATA
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TSS PLOT



VSWR PLOT





**SUMMARY TEST DATA
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PSAT PLOT

