



**SUMMARY TEST DATA
ON
SDLVA-1G20G-58-12-SFF**

PL34067/2139

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL34067/2139

Tested By: J Boze Sign: PM
 QA/QC By: Name Sign: QAS
 Temperature: +25°C
 Date: 10/01/2021
 Drawing No: 27612160 Rev: A3

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST MEASUREMENT	TEST RESULT	QA QC	
1	Frequency Range	1 GHz – 20 GHz	1 GHz – 20 GHz	Pass	PMI QAS	
2	Frequency Flatness	±2.0 dB Typ	See Plot	±1.5 dB	PMI QAS	
3	Log Linearity	±1.0 dB Typ (-50 to 0 dBm)	See Plot	±2.0 dB Max ±1.4 dB Avg		
4	Log Linearity Over Temp	±1.0 dB Typ. (-50 to 0 dBm @ -55°C to +85°C)	By Design	Pass		
5	Logging Range	-54 to +5 dBm	By Design	Pass		
6	Input VSWR	3.0:1 Typ	See Plot	3.5:1		
7	Log Video Output Voltage	0.9 V to 1.5V Typ	See Plot	1.0 V to 1.7 V		
8	Log Video Output Slope	14 mV / dB Typ	See Plot	14.4 mV		
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Plot	3.2 ns		
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Plot	14.1 ns		
11	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	See Plot	Pass		
12	Log Video Propagation Delay	14 ns Typ	By Design	Pass		
13	TSS	-60 dBm Typ	See Plot	-54 dBm		
14	Power Supply	+12V @ 100mA Typ	90 mA	90 mA		PMI QAS

QA/QC Approval: *A Zimmerman* Date: 10-1-21



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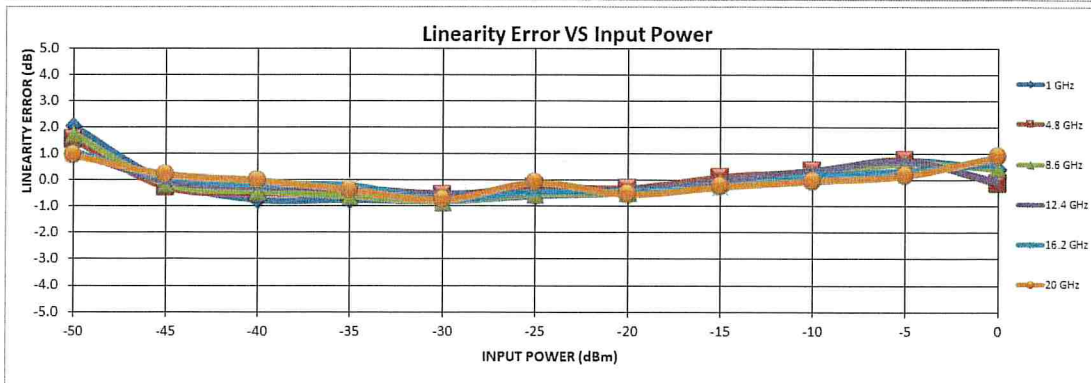
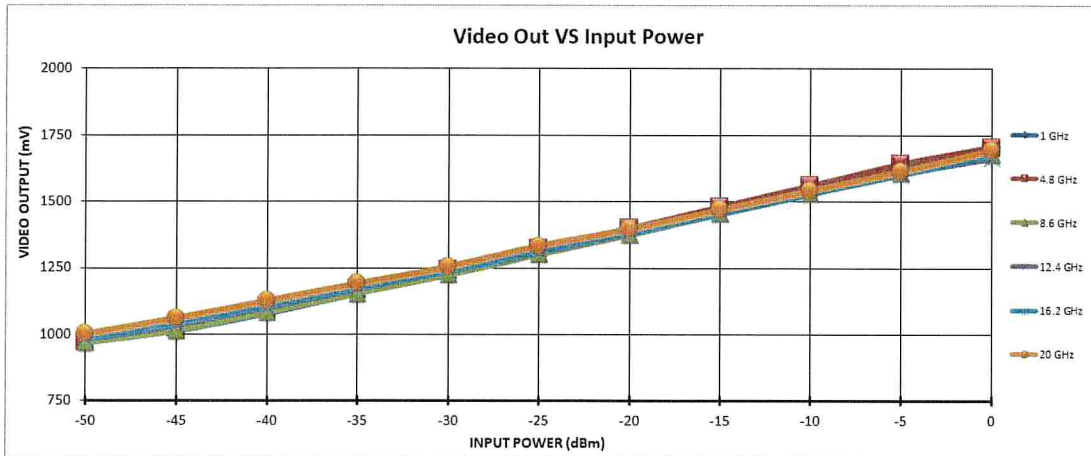
PL34067/2139

LOG TRANSFER VS FREQUENCY
Model: SDLVA-1G20G-58-12-SFF
Tested By: J. Boze
Date: 10/01/21
Serial No: PL34067 Flash
Test Temp: +25°C

Log Transfer @ 25°C



Frequency	Intercept (mV)	Slope (mV/dB)	RF Input Power (dBm)											Measured Value (mV)	Error (mV)								
1 GHz	1698.6	15.2	971	1015	1080	1156	1231	1310	1388	1471	1551	1634	1705	2.0	2.0								
	31	-1	-12	-12	-12	-9	-7	0	4	11	6	2.05	-0.05	-0.77	-0.76	-0.82	-0.61	-0.47	0.00	0.27	0.74	0.42	2.0
	2.05	-0.05	-0.77	-0.76	-0.82	-0.61	-0.47	0.00	0.27	0.74	0.42												
4.8 GHz	1704	15.1	972	1020	1092	1167	1242	1322	1397	1479	1558	1640	1702	1.5	1.5								
	23	-4	-8	-8	-9	-4	-5	2	5	11	-2	1.53	-0.29	-0.52	-0.56	-0.59	-0.29	-0.33	0.10	0.33	0.76	-0.14	1.5
	1.53	-0.29	-0.52	-0.56	-0.59	-0.29	-0.33	0.10	0.33	0.76	-0.14												
8.6 GHz	1674.5	14.6	971	1016	1085	1155	1225	1302	1376	1455	1532	1611	1681	1.8	1.8								
	26	-2	-6	-9	-12	-8	-7	-1	3	9	6	1.76	-0.16	-0.42	-0.62	-0.82	-0.54	-0.47	-0.05	0.23	0.64	0.44	1.8
	1.76	-0.16	-0.42	-0.62	-0.82	-0.54	-0.47	-0.05	0.23	0.64	0.44												
12.4 GHz	1665	14.0	981	1035	1102	1171	1238	1309	1380	1455	1530	1605	1664	1.1	1.1								
	15	-1	-4	-5	-8	-6	-5	0	5	10	-1	1.08	-0.06	-0.27	-0.33	-0.54	-0.46	-0.38	-0.02	0.35	0.71	-0.07	1.1
	1.08	-0.06	-0.27	-0.33	-0.54	-0.46	-0.38	-0.02	0.35	0.71	-0.07												
16.2 GHz	1667	13.9	985	1041	1107	1176	1238	1312	1382	1454	1530	1602	1676	1.1	1.1								
	15	1	-2	-3	-11	-6	-6	-4	2	5	9	1.08	0.10	-0.17	-0.22	-0.77	-0.46	-0.44	-0.28	0.17	0.34	0.65	1.1
	1.08	0.10	-0.17	-0.22	-0.77	-0.46	-0.44	-0.28	0.17	0.34	0.65												
20 GHz	1676.9	13.8	999	1058	1124	1188	1252	1330	1393	1466	1538	1610	1689	0.9	0.9								
	13	3	0	-5	-10	-2	-8	-4	-1	2	12	0.92	0.20	-0.03	-0.39	-0.76	-0.11	-0.55	-0.27	-0.05	0.16	0.88	0.9
	0.92	0.20	-0.03	-0.39	-0.76	-0.11	-0.55	-0.27	-0.05	0.16	0.88												
Average Slope (mV/dB)	14.4		1	1.5	1.5	1.1	0.9	1	0.7	0.9	1	1.3	1.4	Flatness: ± 1.5 dB									





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VSWR Plot



Rise Time





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Fall/Recovery Time



TSS Plot

