



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

PL26820/1944

Customer: _____
 SO No: _____
 Model No: SDLVA-1G20G-58-12-SFF
 Serial No: PL26820/1944

Tested By: Simon K. Sign: *SK*
 QA/QC By: Arthur Z. Sign: *AZ*
 Temperature: +25°C
 Date: 10/30/2019
 Drawing No: 27612160 Rev: A2

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST MEASUREMENT	TEST RESULT	QA QC
1	Frequency Range	1 GHz – 20 GHz	1 GHz – 20 GHz	Pass	<i>AZ</i>
2	Frequency Flatness	±2.0 dB Typ	See Plot	± 1.5 dB	
3	Log Linearity	±1.0 dB Typ	See Plot	Pass	
4	Log Linearity Over Temp	±1.0 dB Typ. (@ -55°C to +85°C)	By Design	Pass	
5	Logging Range	-54 to +5 dBm	See Plot	Pass	
6	Input VSWR	3.0:1 Typ	See Plot	3.98:1	
7	Log Video Output Voltage	0.9 V to 1.5V Typ	See Plot	1.76 V	
8	Log Video Output Slope	14 mV / dB Typ	See Plot	13.6 mV	
9	Log Video Output Rise Time	5 ns Typ (Pin = -20 dBm @ 10% to 90%)	See Typical Characteristics	Pass	
10	Log Video Output Fall Time	20 ns Typ (Pin = -20 dBm @ 90% to 10%)	See Typical Characteristics	Pass	
11	Log Video Recovery Time	28 ns Typ (Pin = -50 dBm to 0 dBm)	See Typical Characteristics	Pass	
12	Log Video Propagation Delay	14 ns Typ	See Typical Characteristics	Pass	
13	Power Supply	+12V Typ @ 100mA	93 mA	Pass	

QA/QC Approval: *Arthur Zimmerman* Date: 10/30/2019



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Transfer @ 25C – Data

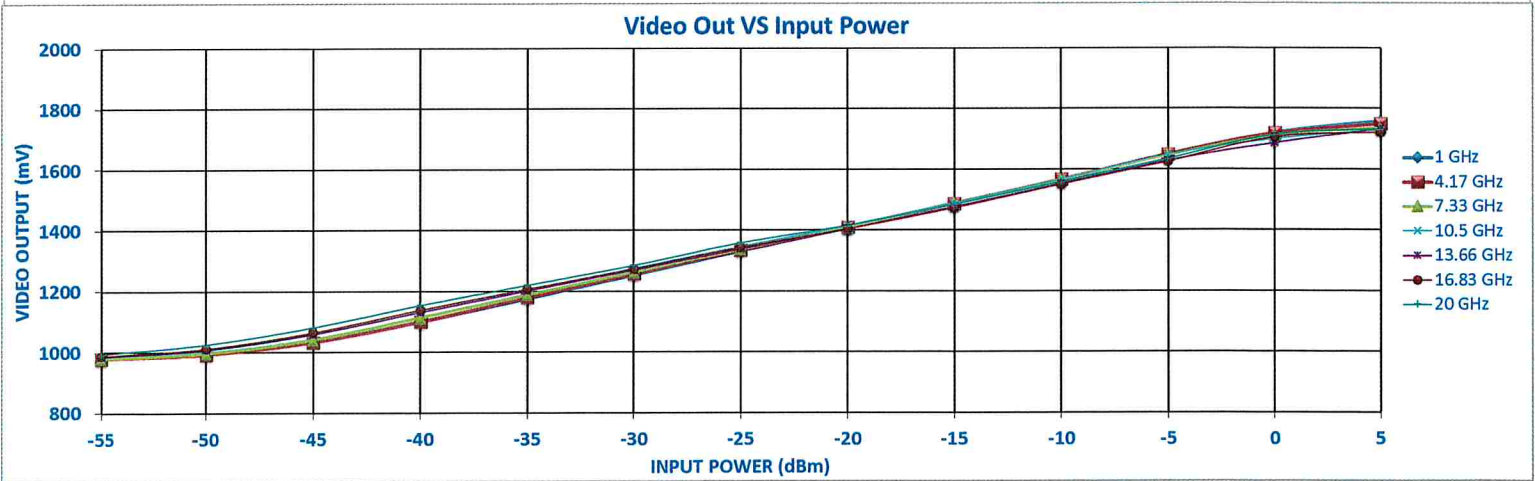
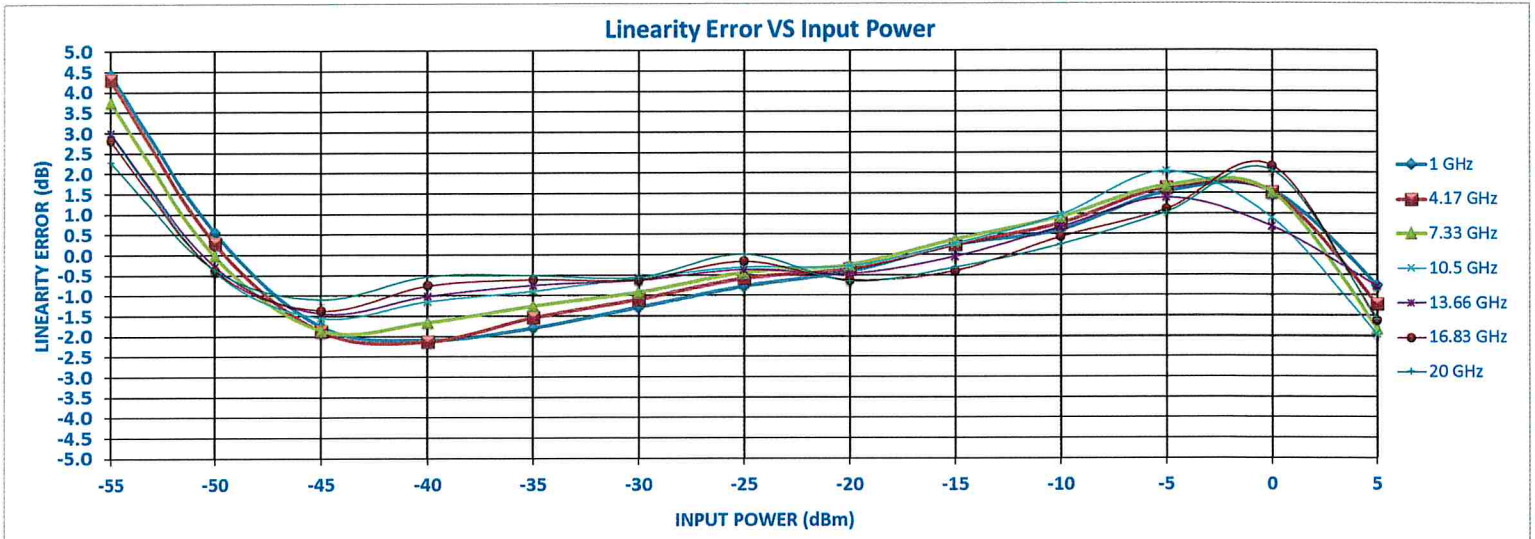
LOG TRANSFER WITH FREQUENCY		RF Input Power (dBm)													
MODEL: SDLVA-1G20G-58-12-SFF		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	Measured Value (mV)
TESTED BY: Simon K.														Error (mV)	
DATE: 10/16/2019														LINEARITY ERROR (dB)	
SERIAL NO: PL26820															
Test Temp: +25C															
Frequency															
1 GHz	INTERCEPT (mV)													1697	
	SLOPE (mV/dB)													14.2	
		981	997	1035	1101	1176	1254	1332	1408	1488	1564	1648	1719	1757	Measured Value (mV)
		63	8	-25	-30	-25	-18	-11	-6	3	9	22	22	-11	Error (mV)
		4.43	0.56	-1.76	-2.10	-1.80	-1.29	-0.78	-0.41	0.24	0.60	1.54	1.55	-0.77	LINEARITY ERROR (dB)
		x													
4.17 GHz	INTERCEPT (mV)													1697	
	SLOPE (mV/dB)													14.1	
		980	994	1034	1101	1180	1257	1335	1409	1488	1566	1649	1718	1750	Measured Value (mV)
		61	4	-26	-30	-22	-15	-8	-5	3	11	23	21	-17	Error (mV)
		4.31	0.30	-1.87	-2.13	-1.54	-1.10	-0.58	-0.34	0.25	0.77	1.64	1.52	-1.22	LINEARITY ERROR (dB)
		x													
7.33 GHz	INTERCEPT (mV)													1692	
	SLOPE (mV/dB)													13.9	
		981	998	1042	1114	1189	1263	1339	1411	1489	1566	1646	1713	1736	Measured Value (mV)
		52	0	-26	-23	-17	-13	-6	-4	5	13	23	21	-25	Error (mV)
		3.75	-0.02	-1.85	-1.66	-1.26	-0.92	-0.44	-0.25	0.37	0.92	1.68	1.51	-1.83	LINEARITY ERROR (dB)
		x													
10.5 GHz	INTERCEPT (mV)													1688	
	SLOPE (mV/dB)													13.5	
		985	1007	1059	1132	1203	1275	1346	1414	1489	1566	1648	1700	1729	Measured Value (mV)
		40	-5	-21	-16	-12	-8	-4	-4	4	13	27	12	-27	Error (mV)
		2.97	-0.40	-1.55	-1.15	-0.89	-0.57	-0.31	-0.28	0.27	0.97	2.03	0.88	-1.97	LINEARITY ERROR (dB)
		x													
13.66 GHz	INTERCEPT (mV)													1677	
	SLOPE (mV/dB)													13.3	
		986	1009	1060	1132	1202	1270	1340	1405	1477	1553	1629	1686	1733	Measured Value (mV)
		40	-4	-19	-13	-10	-8	-5	-6	-1	9	18	9	-10	Error (mV)
		3.00	-0.27	-1.43	-1.01	-0.75	-0.63	-0.36	-0.47	-0.05	0.67	1.39	0.68	-0.78	LINEARITY ERROR (dB)
		x													
16.83 GHz	INTERCEPT (mV)													1677	
	SLOPE (mV/dB)													13.2	
		988	1012	1065	1139	1207	1273	1345	1405	1474	1551	1626	1706	1722	Measured Value (mV)
		37	-5	-18	-10	-8	-8	-2	-8	-5	6	15	29	-21	Error (mV)
		2.81	-0.37	-1.36	-0.76	-0.61	-0.61	-0.16	-0.62	-0.40	0.43	1.11	2.17	-1.62	LINEARITY ERROR (dB)
		x													
20 GHz	INTERCEPT (mV)													1686	
	SLOPE (mV/dB)													13.1	
		994	1025	1081	1154	1220	1285	1358	1415	1485	1558	1634	1713	1731	Measured Value (mV)
		30	-5	-14	-7	-7	-7	0	-9	-4	3	14	27	-21	Error (mV)
		2.28	-0.36	-1.09	-0.53	-0.51	-0.55	0.01	-0.65	-0.32	0.24	1.03	2.05	-1.58	LINEARITY ERROR (dB)
		x													
Flatness P-P		1.0	2.2	3.4	3.8	3.2	2.2	2.0	0.8	1.2	1.2	1.6	2.4	2.6	
Slope Avg(mv/dB)														13.6	



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Transfer @ 25C – Plot

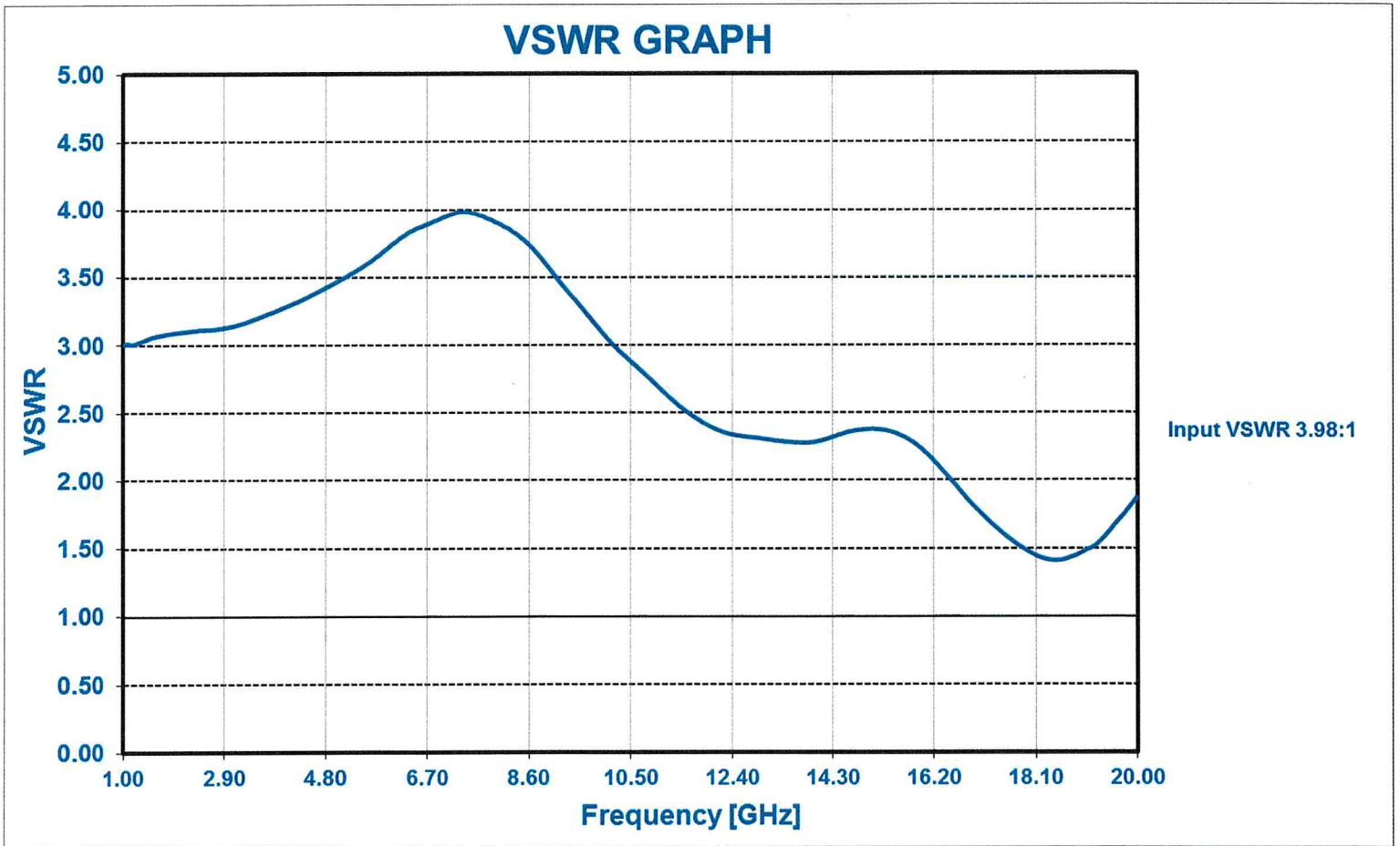




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VSWR

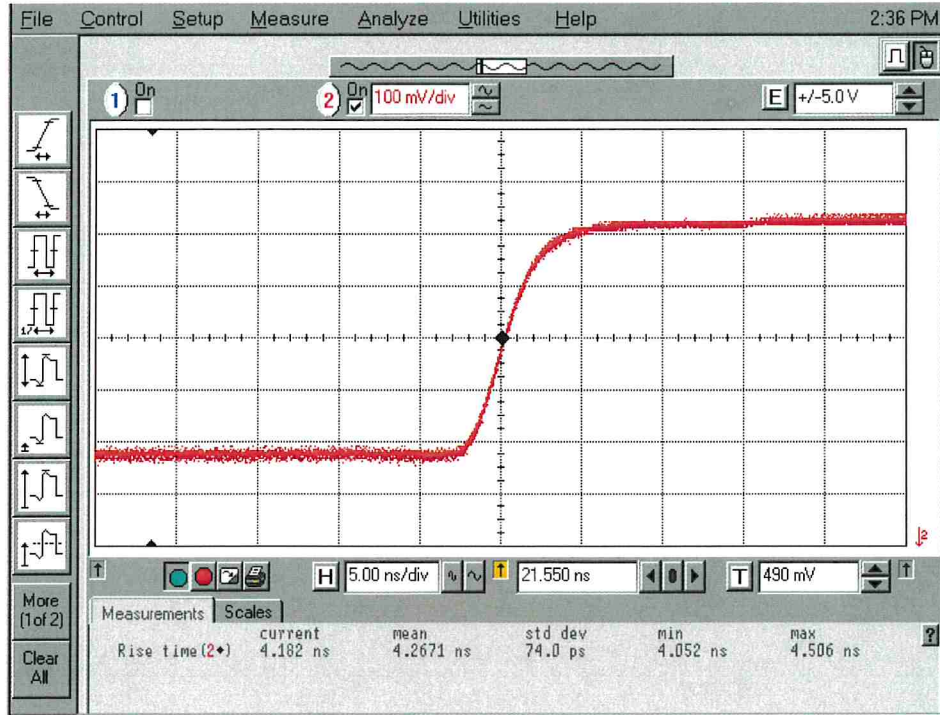




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Rise Time



Fall Time

