



Typical Characteristics For SDLVA-2020-70-0518

THE SDLVA-2020 SERIES OF TRULY DC-COUPLED SUCCESSIVE DETECTION LOG VIDEO AMPLIFIERS (SDLVA'S) ARE AVAILABLE IN EXTENDED 70/75dB DYNAMIC RANGE OVER THE RANGE OF 0.5 – 18 GHz BANDWIDTH, WITH TRUE DC COUPLING. UNITS EMPLOY PLANAR DIODE DETECTORS AND INTEGRATED VIDEO CIRCUITRY FOR HIGH SPEED PERFORMANCE AND OUTSTANDING RELIABILITY. THE DLVA'S ARE OF SUPERIOR CONSTRUCTION USING STATE-OF-THE-ART MIC/MMIC TECHNOLOGY. THE SIZE IS 3.0" X 3.5" X 0.5".



July 30, 2018

Designed by: PMI Engineering

Reported by: Simon Kuhn

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Typical Characteristics For SDLVA-2020-70-0518

TABLE OF CONTENTS

1. Product Feature:	Page 3
2. Summary Data:	Page 4
3. Logging Data @ +25°C:	Page 5
4. Logging Plots @ +25°C:	Page 6
5. Logging Data @ 0°C:	Page 7
6. Logging Plots @ 0°C:	Page 8
7. Logging Data @ +60°C:	Page 9
8. Logging Plots @ +60°C:	Page 10
9. Output Power @ +25°C:	Page 11
10. VSWR @ +25°C:	Page 12
11. TSS (-67 dBm) @ +25°C:	Page 13
12. Rise @ +25°C:	Page 14
13. Recovery @ +25°C:	Page 15



Typical Characteristics For SDLVA-2020-70-0518

Product Feature

DESCRIPTION

THE SDLVA-2020 SERIES OF TRULY DC-COUPLED SUCCESSIVE DETECTION LOG VIDEO AMPLIFIERS (SDLVA'S) ARE AVAILABLE IN EXTENDED 70/75dB DYNAMIC RANGE OVER THE RANGE OF 0.5-18 GHz BANDWIDTH, WITH TRUE DC COUPLING. UNITS EMPLOY PLANAR DIODE DETECTORS AND INTEGRATED VIDEO CIRCUITRY FOR HIGH SPEED PERFORMANCE AND OUTSTANDING RELIABILITY. THE DLVA'S ARE OF SUPERIOR CONSTRUCTION USING STATE-OF-THE-ART MIC/MMIC TECHNOLOGY. THE SIZE IS 3.0" x 3.5" x 0.5".

FEATURES

- TRULY DC COUPLED
- WIDE BANDWIDTHS
- FAST RISE TIMES
- SHORT RECOVERY TIMES
- SUPERIOR ACCURACY
- EXTENDED DYNAMIC RANGE CAPABILITY
- MINIATURE SIZE
- 7.2 OZ WEIGHT

SPECIFICATIONS

- FREQUENCY RANGE 0.5-18 GHz
- FREQUENCY FLATNESS ± 2.0 dB (0.5-18 GHz)
- TSS -65dBm MINIMUM (8-18 GHz)
- VSWR 3.0:1 (@ -20dBm, 0.5-18 GHz)
- LOGGING RANGE -65dBm TO +5dBm
- LOG LINEARITY ± 1.75 dB MAXIMUM (-65dBm TO +5dBm)
- LOG SLOPE 20mV/dB ($\pm 10\%$ TOLERANCE)
- LOG TEMPERATURE STABILITY ± 1.75 dB (0°C TO 60°C)
- RISE TIME (10% TO 90% POINTS) 20ns MAXIMUM
- RECOVERY TIME 200ns MAXIMUM (-65dBm TO +5dBm)
- OUTPUT POWER: +10dBm ± 2.5 dB TYP.
- OUTPUT VIDEO LOAD 100 OHMS $\pm 10\%$ OR AS DESIRED
- DC POWER (NO LOAD)
 - +V 15V @ 600mA MAXIMUM
 - V 15V @ 200mA MAXIMUM
- SIZE 3.00" x 3.5" x 0.5"
- FINISH PAINTED BLUE

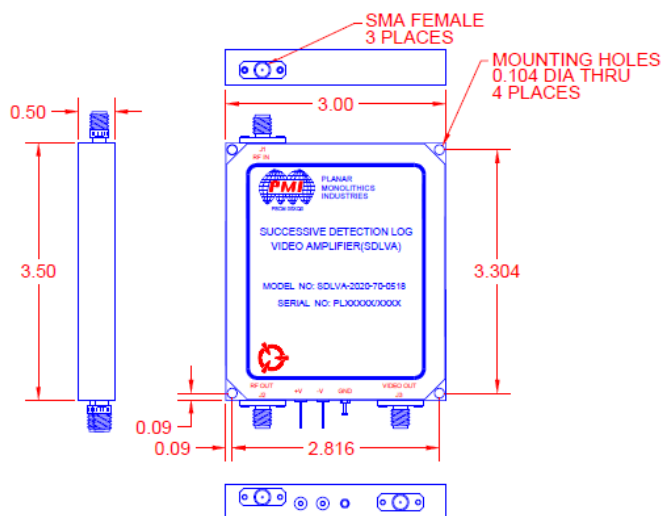
ENVIRONMENTAL RATINGS

- **TEMPERATURE** -54°C TO +85°C (OPERATING)
..... -65°C TO +100°C (STORAGE)
- **HUMIDITY** MIL-STD-202F, METHOD 103B COND. B
- **SHOCK** MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION** MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE** MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE** MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

NOTES:
1. DIMENSIONS ARE IN INCHES
2. TOLERANCES: 3.00 .05.000
3.000 .005.010
3. MESH
4. UNIT IS EPOXY SOLDER

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A1	ORIGINAL RELEASE	08/18/18
	A2	ECN # 22-0092	07/21/22



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ISO 9001:2000 CERTIFIED



APPROVALS		DATE		TITLE		SIZE		FROM NO.		DWG NO.		REV.	
DRAWN	JKM		5/19/04		PRODUCT FEATURE	A	05XQ0		27034720		A2		
DESIGNED	JPU		8/18/18		SDLVA-2020-70-0518								
ISSUED					SUCCESSIVE DETECTION LOG								
				SCALE		N/S				SHEET		1 OF 2	

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Typical Characteristics For SDLVA-2020-70-0518

Summary Test Data

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	0.5GHz to 18.0GHz	0.5GHz to 18.0GHz	
2	Frequency Flatness:	±2.0 dB Typ (0.5GHz to 18.0GHz)	± 1.7 dB See Plot	
3	TSS:	-65 dBm Min (8.0 to 18.0GHz)	-67 dBm See Plot	
4	VSWR:	3.0:1 (0.5 to 18.0GHz @ -20dBm)	1.9 : 1 See Plot	
5	Logging Range	-65 dBm to +5 dBm	-65 dBm to +5 dBm	
6	Log Linearity	1.75dB Max (-65 dBm to +5 dBm)	1.38 dB	
7	Log Slope	20mV/dB (±10% Tolerance)	20 mV/dB	
8	Log Temperature Stability:	±1.75dB (0°C to 60°C)	± 1.68 dB See Plot	
9	Rise Time (10% to 90%):	20ns Max	8.62 ns See Plot	
10	Recover Time:	200ns Max (-65 dBm to +5 dBm)	36.69 ns See Plot	
11	Output Power:	+10dBm ±2.5dB Typ	13.99 dBm See Plot	
12	Output Video Load:	100Ω ±10% or as desired	Pass	
13	Power Supply:	+15V @ 600mA Max -15V @ 200mA Max	490 mA 95 mA	

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Typical Characteristics For SDLVA-2020-70-0518

LOGGING DATA @ +25C

LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-2020-70-0518
TESTED BY: Simon K.
DATE: 07/24/18
SERIAL NO: PL23083

Test Temp: +25C



PLANAR MONOLITHICS INDUSTRIES
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Frequency

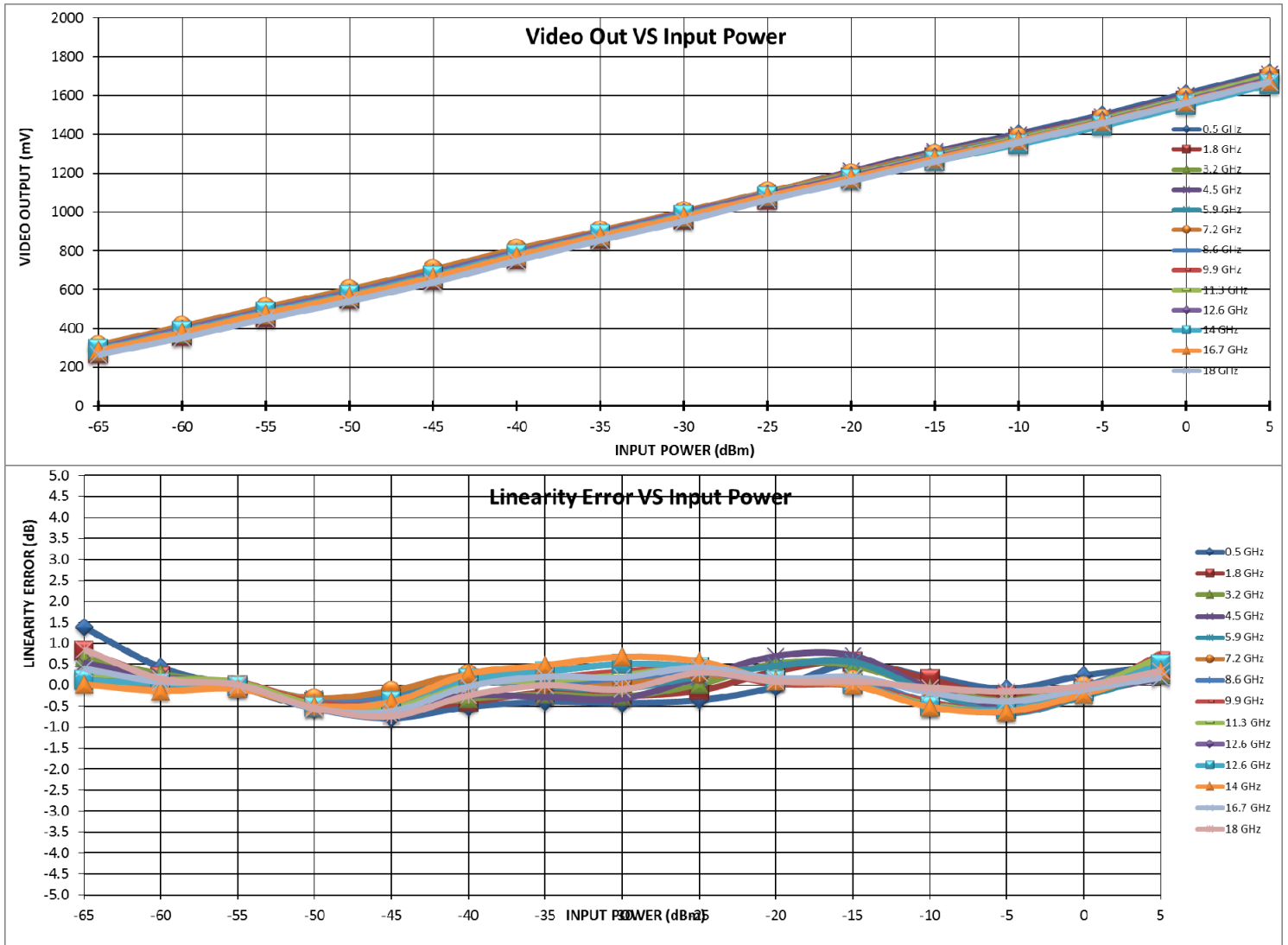
		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.5 GHz	INTERCEPT (mV)	1605															Measured Value (mV)
	SLOPE (mV/dB)	20.5															Error (mV)
		300	383	476	568	666	774	879	981	1085	1194	1308	1404	1501	1610	1717	1.38
		28	9	-1	-11	-16	-11	-8	-9	-7	-1	11	4	-2	5	9	
		1.38	0.43	-0.04	-0.56	-0.78	-0.52	-0.40	-0.43	-0.36	-0.04	0.51	0.19	-0.08	0.23	0.45	
1.8 GHz	INTERCEPT (mV)	1574															Measured Value (mV)
	SLOPE (mV/dB)	20.3															Error (mV)
		271	360	457	551	649	754	860	960	1064	1175	1281	1374	1467	1572	1681	0.82
		17	4	0	-8	-12	-8	-4	-5	-3	7	11	3	-6	-2	5	
		0.82	0.20	-0.02	-0.39	-0.57	-0.40	-0.17	-0.25	-0.13	0.34	0.56	0.14	-0.28	-0.11	0.26	
3.2 GHz	INTERCEPT (mV)	1591															Measured Value (mV)
	SLOPE (mV/dB)	20.4															Error (mV)
		279	373	470	563	662	769	873	974	1082	1194	1295	1386	1482	1591	1699	0.66
		13	5	0	-8	-11	-6	-4	-5	1	11	10	-1	-7	0	6	
		0.66	0.27	0.02	-0.42	-0.56	-0.32	-0.22	-0.27	0.03	0.52	0.47	-0.07	-0.36	-0.02	0.27	
4.5 GHz	INTERCEPT (mV)	1603															Measured Value (mV)
	SLOPE (mV/dB)	20.3															Error (mV)
		291	386	484	577	677	784	885	986	1098	1210	1312	1398	1491	1599	1708	0.71
		11	4	0	-8	-10	-5	-6	-6	4	14	14	-1	-10	-4	3	
		0.53	0.20	0.01	-0.42	-0.50	-0.24	-0.28	-0.31	0.19	0.69	0.71	-0.07	-0.50	-0.19	0.17	
5.9 GHz	INTERCEPT (mV)	1587															Measured Value (mV)
	SLOPE (mV/dB)	19.8															Error (mV)
		302	398	497	590	691	796	893	991	1096	1200	1301	1386	1475	1582	1692	0.67
		3	0	0	-6	-4	2	-1	-2	4	9	11	-3	-13	-5	6	
		0.15	0.00	-0.01	-0.32	-0.22	0.08	-0.03	-0.08	0.21	0.46	0.56	-0.16	-0.67	-0.27	0.28	
7.2 GHz	INTERCEPT (mV)	1591															Measured Value (mV)
	SLOPE (mV/dB)	19.7															Error (mV)
		314	411	509	601	703	809	903	1002	1104	1200	1298	1385	1480	1590	1700	0.63
		2	0	0	-6	-3	5	1	1	5	3	2	-9	-12	-1	11	
		0.09	0.02	0.00	-0.32	-0.13	0.26	0.04	0.07	0.26	0.14	0.12	-0.46	-0.63	-0.03	0.56	
8.6 GHz	INTERCEPT (mV)	1588															Measured Value (mV)
	SLOPE (mV/dB)	19.9															Error (mV)
		301	397	495	586	687	794	893	995	1097	1192	1292	1381	1477	1587	1698	0.57
		5	2	0	-8	-6	1	1	4	6	2	2	-8	-11	-1	11	
		0.26	0.09	0.02	-0.40	-0.32	0.06	0.05	0.18	0.31	0.09	0.12	-0.40	-0.57	-0.03	0.55	
9.9 GHz	INTERCEPT (mV)	1573															Measured Value (mV)
	SLOPE (mV/dB)	19.8															Error (mV)
		292	388	487	576	675	783	884	986	1086	1178	1276	1367	1461	1569	1686	0.74
		4	1	2	-8	-8	1	3	6	8	1	0	-8	-13	-4	15	
		0.21	0.07	0.08	-0.42	-0.41	0.05	0.16	0.32	0.38	0.04	0.00	-0.40	-0.65	-0.18	0.74	
11.3 GHz	INTERCEPT (mV)	1585															Measured Value (mV)
	SLOPE (mV/dB)	19.9															Error (mV)
		297	394	492	581	680	790	891	993	1096	1190	1287	1377	1474	1583	1698	0.67
		5	3	1	-9	-10	1	2	5	8	3	0	-9	-12	-2	13	
		0.27	0.14	0.07	-0.46	-0.49	0.04	0.12	0.24	0.42	0.14	0.01	-0.46	-0.59	-0.11	0.67	
12.6 GHz	INTERCEPT (mV)	1576															Measured Value (mV)
	SLOPE (mV/dB)	19.7															Error (mV)
		298	395	492	581	682	791	893	995	1092	1184	1281	1369	1466	1573	1684	0.58
		2	1	-1	-10	-8	3	6	10	8	2	0	-10	-11	-3	10	
		0.12	0.04	-0.03	-0.52	-0.39	0.15	0.33	0.50	0.43	0.10	0.03	-0.51	-0.58	-0.15	0.49	
14 GHz	INTERCEPT (mV)	1553															Measured Value (mV)
	SLOPE (mV/dB)	19.4															Error (mV)
		292	386	484	573	672	782	883	984	1079	1167	1262	1349	1444	1549	1657	0.68
		0	-3	-2	-10	-8	5	9	13	11	2	0	-10	-12	-4	7	
		0.02	-0.13	-0.08	-0.50	-0.40	0.27	0.47	0.68	0.57	0.11	0.00	-0.52	-0.62	-0.21	0.35	
16.7 GHz	INTERCEPT (mV)	1569															Measured Value (mV)
	SLOPE (mV/dB)	19.9															Error (mV)
		286	379	477	565	663	774	878	977	1081	1175	1275	1367	1462	1567	1672	0.62
		8	2	0	-11	-12	-1	4	4	9	3	4	-3	-8	-2	4	
		0.40	0.08	0.02	-0.55	-0.62	-0.03	0.21	0.19	0.43	0.16	0.20	-0.17	-0.39	-0.10	0.19	
18 GHz	INTERCEPT (mV)	1562															Measured Value (mV)
	SLOPE (mV/dB)	20.2															Error (mV)
		266	353	451	541	638	749	855	954	1063	1160	1261	1359	1458	1562	1670	0.85
		17	3	0	-11	-15	-5	0	-2	6	2	2	-1	-3	0	7	
		0.85	0.16	0.01	-0.54	-0.74	-0.24	0.00	-0.10	0.30	0.10	0.09	-0.06	-0.16	-0.01	0.34	
Flatness		1.2	1.5	1.5	1.5	1.6	1.5	1.2	1.2	1	1.3	1.3	1.4	1.4	1.5	1.5	
Linearity Max.(dB)=		1.38															
Linearity Min.(dB)=		-0.78															
Average Slope (mV/dB)		20.0															

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LOGGING PLOTS @ +25C



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Typical Characteristics For SDLVA-2020-70-0518

LOGGING DATA @ 0C

LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-2020-70-0518
TESTED BY: Simon K.
DATE: 07/24/18
SERIAL NO: PL23083

Test Temp: +0C



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Frequency

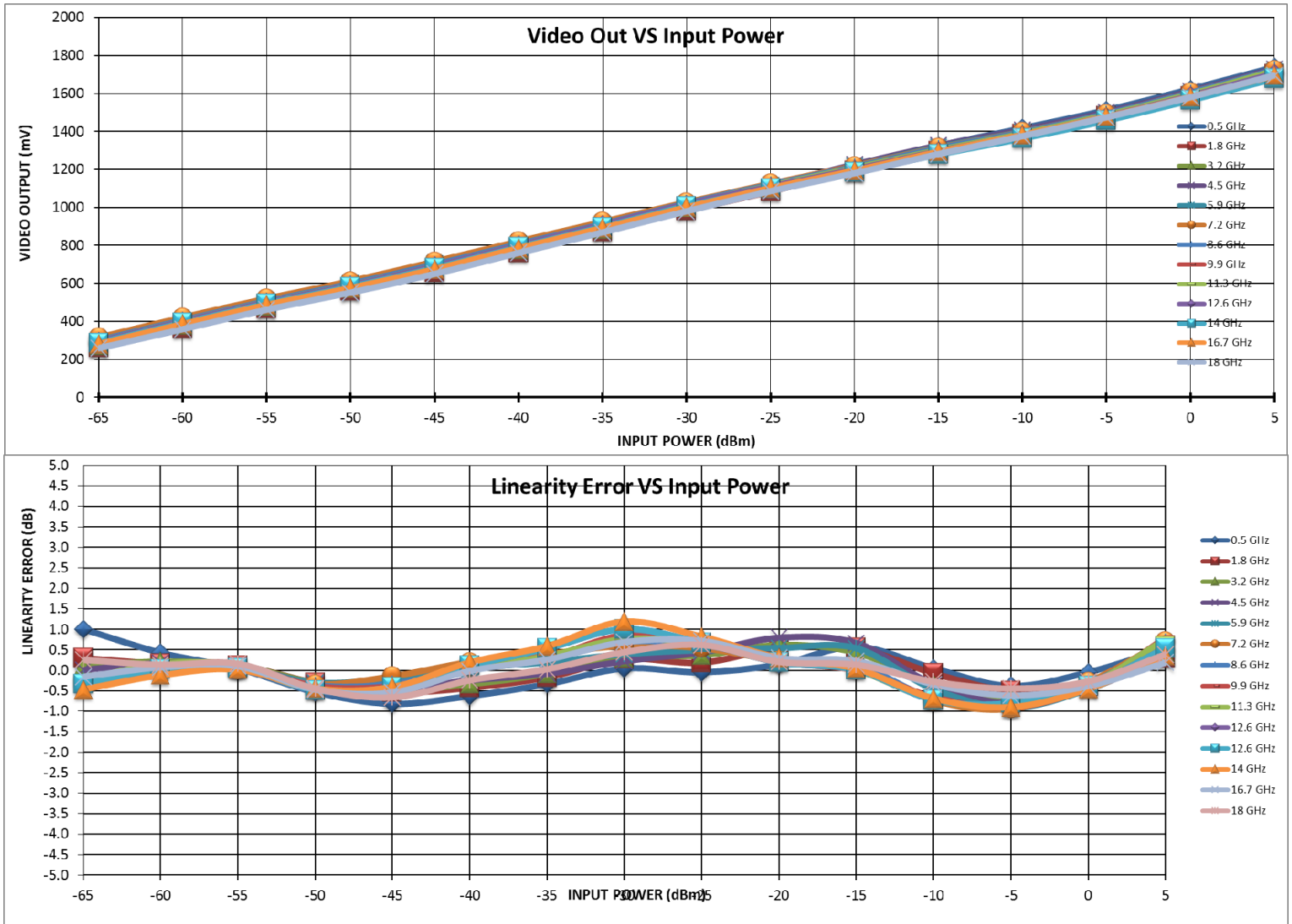
		-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5																RF Input Power (dBm)
0.5 GHz	INTERCEPT (mV)	293 385 481 573 671 779 889 1001 1103 1211 1324 1417 1512 1623 1739																Measured Value (mV)
	SLOPE (mV/dB)	21 9 1 -11 -17 -13 -7 1 -1 3 12 1 -8 -1 11																Error (mV)
		1.00 0.43 0.04 -0.53 -0.82 -0.63 -0.34 0.04 -0.05 0.14 0.57 0.05 -0.39 -0.05 0.53																1.00
1.8 GHz	INTERCEPT (mV)	264 364 466 560 658 763 871 983 1084 1194 1297 1387 1481 1586 1703																Measured Value (mV)
	SLOPE (mV/dB)	6 3 3 -6 -11 -9 -4 6 4 11 11 -2 -10 -8 6																Error (mV)
		0.30 0.16 0.12 -0.30 -0.54 -0.43 -0.18 0.27 0.19 0.54 0.55 -0.08 -0.50 -0.39 0.30																0.55
3.2 GHz	INTERCEPT (mV)	274 379 480 574 673 779 887 998 1102 1210 1309 1396 1492 1602 1720																Measured Value (mV)
	SLOPE (mV/dB)	2 4 2 -6 -10 -7 -2 6 8 13 9 -7 -14 -9 9																Error (mV)
		0.10 0.21 0.12 -0.31 -0.49 -0.34 -0.09 0.31 0.36 0.62 0.43 -0.34 -0.67 -0.32 0.41																0.67
4.5 GHz	INTERCEPT (mV)	286 392 493 587 687 794 900 1009 1116 1226 1326 1408 1501 1611 1730																Measured Value (mV)
	SLOPE (mV/dB)	0 4 2 -7 -9 -5 -2 5 9 16 14 -7 -17 -9 7																Error (mV)
		0.01 0.17 0.09 -0.33 -0.46 -0.25 -0.09 0.22 0.44 0.79 0.66 -0.34 -0.81 -0.45 0.34																0.81
5.9 GHz	INTERCEPT (mV)	301 407 508 601 703 808 911 1015 1117 1218 1318 1398 1489 1598 1715																Measured Value (mV)
	SLOPE (mV/dB)	-6 0 1 -6 -4 1 4 8 10 11 11 -9 -18 -9 8																Error (mV)
		-0.30 0.00 0.05 -0.30 -0.20 0.05 0.19 0.39 0.49 0.54 0.54 -0.46 -0.91 -0.47 0.38																0.91
7.2 GHz	INTERCEPT (mV)	315 421 520 612 715 821 924 1027 1125 1218 1314 1397 1492 1604 1723																Measured Value (mV)
	SLOPE (mV/dB)	-7 0 0 -7 -3 4 8 12 11 5 2 -15 -19 -6 14																Error (mV)
		-0.33 0.02 0.01 -0.34 -0.15 0.20 0.40 0.60 0.54 0.23 0.08 -0.74 -0.94 -0.29 0.71																0.94
8.6 GHz	INTERCEPT (mV)	300 406 506 598 699 807 912 1021 1120 1213 1311 1395 1492 1603 1724																Measured Value (mV)
	SLOPE (mV/dB)	-4 2 1 -7 -7 1 5 14 12 5 3 -14 -17 -7 14																Error (mV)
		-0.20 0.08 0.05 -0.37 -0.34 0.04 0.26 0.69 0.62 0.25 0.13 -0.69 -0.86 -0.34 0.69																0.86
9.9 GHz	INTERCEPT (mV)	289 397 497 587 687 795 901 1012 1108 1199 1295 1382 1477 1587 1711																Measured Value (mV)
	SLOPE (mV/dB)	-6 2 2 -8 -8 0 6 17 13 4 0 -13 -18 -8 16																Error (mV)
		-0.28 0.12 0.11 -0.39 -0.39 0.01 0.31 0.85 0.65 0.20 0.00 -0.66 -0.91 -0.41 0.79																0.91
11.3 GHz	INTERCEPT (mV)	293 401 501 590 690 800 907 1016 1114 1207 1302 1388 1486 1596 1719																Measured Value (mV)
	SLOPE (mV/dB)	-5 3 3 -9 -9 0 7 15 13 5 0 -14 -17 -7 15																Error (mV)
		-0.22 0.15 0.13 -0.44 -0.46 0.01 0.34 0.76 0.64 0.27 0.00 -0.72 -0.84 -0.37 0.76																0.84
12.6 GHz	INTERCEPT (mV)	293 400 500 589 690 800 908 1017 1110 1200 1296 1381 1479 1587 1705																Measured Value (mV)
	SLOPE (mV/dB)	-7 1 1 -10 -8 2 11 20 13 4 0 -14 -16 -8 11																Error (mV)
		-0.34 0.03 0.05 -0.48 -0.41 0.11 0.53 1.00 0.67 0.19 0.01 -0.72 -0.80 -0.38 0.54																1.00
14 GHz	INTERCEPT (mV)	287 392 493 582 681 791 897 1007 1098 1186 1279 1363 1457 1564 1678																Measured Value (mV)
	SLOPE (mV/dB)	-9 -2 0 -9 -8 4 12 23 16 6 1 -13 -18 -9 7																Error (mV)
		-0.47 -0.12 0.02 -0.45 -0.41 0.19 0.59 1.19 0.82 0.30 0.04 -0.69 -0.90 -0.45 0.35																1.19
16.7 GHz	INTERCEPT (mV)	281 386 487 576 675 786 892 1001 1102 1194 1293 1382 1477 1582 1694																Measured Value (mV)
	SLOPE (mV/dB)	-3 1 2 -9 -11 0 5 14 14 6 5 -7 -12 -8 4																Error (mV)
		-0.16 0.07 0.10 -0.47 -0.54 -0.02 0.26 0.69 0.72 0.30 0.22 -0.34 -0.62 -0.39 0.19																0.72
18 GHz	INTERCEPT (mV)	259 359 462 552 650 761 869 980 1086 1180 1281 1375 1474 1580 1696																Measured Value (mV)
	SLOPE (mV/dB)	5 3 3 -9 -14 -5 1 9 13 4 3 -6 -9 -6 8																Error (mV)
		0.25 0.13 0.16 -0.45 -0.66 -0.25 0.03 0.44 0.62 0.20 0.13 -0.28 -0.45 -0.27 0.39																0.66
Flatness		1.4 1.5 1.4 1.5 1.6 1.5 1.4 1.2 1 1.1 1.2 1.3 1.4 1.5 1.5																
Linearity Max.(dB)=		1.19																
Linearity Min.(dB)=		-0.94																
Average Slope (mV/dB)		20.2																

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LOGGING PLOTS @ 0C



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Typical Characteristics For SDLVA-2020-70-0518

LOGGING DATA @ +60C

LOG TRANSFER VS FREQUENCY
MODEL: SDLVA-2020-70-0518
TESTED BY: Simon K.
DATE: 07/24/18
SERIAL NO: PL23083

Test Temp: +60C



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Frequency

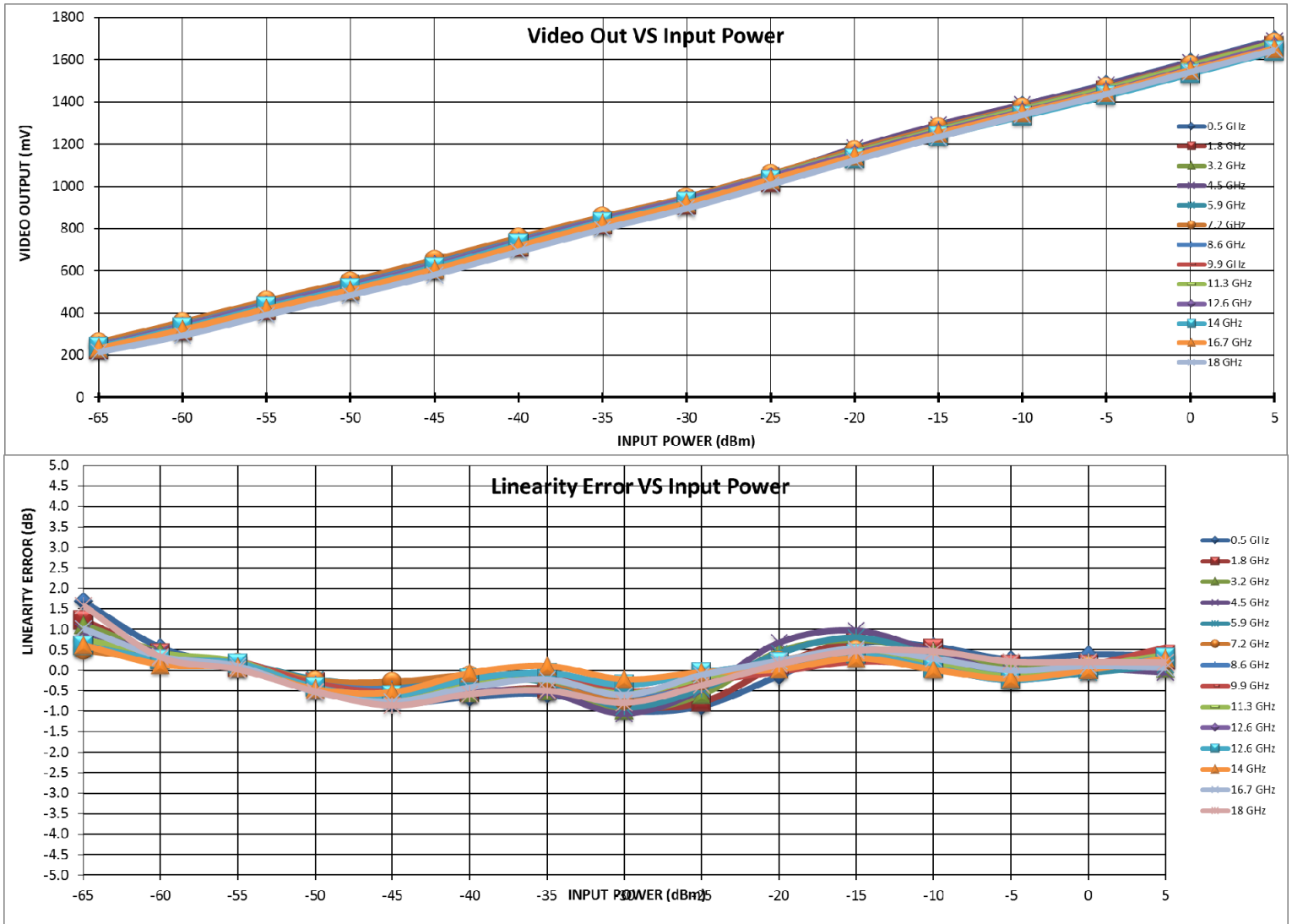
		-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5																RF Input Power (dBm)
0.5 GHz	INTERCEPT (mV)	258 339 434 526 624 732 838 934 1041 1161 1282 1385 1483 1590 1694																Measured Value (mV)
	SLOPE (mV/dB)	35 12 2 -11 -17 -14 -12 -21 -18 -3 14 12 6 8 7																Error (mV)
		1.68 0.55 0.10 -0.50 -0.82 -0.65 -0.58 -0.99 -0.87 -0.14 0.65 0.58 0.26 0.38 0.35																1.68
1.8 GHz	INTERCEPT (mV)	228 315 412 508 606 711 817 912 1018 1141 1257 1357 1453 1557 1663																Measured Value (mV)
	SLOPE (mV/dB)	25 8 2 -6 -12 -11 -9 -18 -16 3 15 11 3 3 5																Error (mV)
		1.22 0.41 0.07 -0.31 -0.60 -0.55 -0.45 -0.88 -0.78 0.13 0.71 0.52 0.14 0.14 0.23																1.22
3.2 GHz	INTERCEPT (mV)	234 325 423 518 617 724 830 925 1038 1165 1276 1375 1472 1579 1681																Measured Value (mV)
	SLOPE (mV/dB)	23 9 2 -8 -14 -12 -10 -20 -12 10 16 10 2 4 1																Error (mV)
		1.11 0.45 0.11 -0.36 -0.64 -0.55 -0.50 -0.97 -0.59 0.46 0.74 0.46 0.08 0.18 0.03																1.11
4.5 GHz	INTERCEPT (mV)	243 337 436 531 630 737 841 935 1052 1181 1292 1386 1480 1587 1690																Measured Value (mV)
	SLOPE (mV/dB)	20 9 3 -7 -13 -11 -11 -22 -10 14 20 9 -1 1 -1																Error (mV)
		0.94 0.42 0.14 -0.33 -0.61 -0.50 -0.54 -1.06 -0.48 0.67 0.97 0.45 -0.07 0.04 -0.05																1.06
5.9 GHz	INTERCEPT (mV)	250 347 447 541 640 746 846 936 1047 1167 1277 1370 1461 1566 1672																Measured Value (mV)
	SLOPE (mV/dB)	11 6 4 -5 -8 -4 -6 -18 -9 8 16 7 -4 -1 3																Error (mV)
		0.54 0.29 0.18 -0.22 -0.38 -0.19 -0.30 -0.89 -0.46 0.41 0.80 0.35 -0.20 -0.06 0.13																0.89
7.2 GHz	INTERCEPT (mV)	261 358 458 551 652 757 856 948 1059 1171 1278 1373 1468 1575 1679																Measured Value (mV)
	SLOPE (mV/dB)	10 5 4 -5 -6 -3 -5 -15 -6 5 10 3 -3 2 4																Error (mV)
		0.49 0.26 0.17 -0.25 -0.29 -0.12 -0.26 -0.73 -0.28 0.23 0.49 0.16 -0.17 0.09 0.21																0.73
8.6 GHz	INTERCEPT (mV)	247 343 443 535 635 742 845 940 1050 1161 1269 1367 1463 1571 1676																Measured Value (mV)
	SLOPE (mV/dB)	13 6 4 -7 -9 -5 -5 -12 -5 3 9 4 -3 3 5																Error (mV)
		0.64 0.32 0.19 -0.33 -0.46 -0.25 -0.23 -0.61 -0.25 0.16 0.42 0.19 -0.13 0.13 0.24																0.64
9.9 GHz	INTERCEPT (mV)	239 333 433 524 622 730 834 928 1035 1142 1249 1349 1445 1553 1664																Measured Value (mV)
	SLOPE (mV/dB)	14 6 4 -7 -11 -5 -3 -11 -6 -1 4 2 -4 2 11																Error (mV)
		0.70 0.31 0.21 -0.33 -0.52 -0.23 -0.13 -0.52 -0.28 -0.03 0.21 0.11 -0.18 0.11 0.55																0.70
11.3 GHz	INTERCEPT (mV)	244 340 439 529 628 737 842 938 1049 1160 1267 1365 1462 1570 1679																Measured Value (mV)
	SLOPE (mV/dB)	15 8 4 -9 -13 -7 -5 -12 -4 4 8 3 -3 2 8																Error (mV)
		0.75 0.41 0.21 -0.42 -0.62 -0.33 -0.24 -0.58 -0.19 0.19 0.38 0.14 -0.15 0.09 0.37																0.75
12.6 GHz	INTERCEPT (mV)	244 339 439 529 627 737 842 938 1046 1153 1259 1354 1450 1557 1665																Measured Value (mV)
	SLOPE (mV/dB)	12 5 3 -9 -12 -4 -1 -7 -1 -4 8 1 -5 0 6																Error (mV)
		0.60 0.26 0.17 -0.42 -0.61 -0.22 -0.07 -0.36 -0.06 0.19 0.39 0.05 -0.24 0.01 0.30																0.61
14 GHz	INTERCEPT (mV)	238 329 428 518 617 727 831 925 1029 1131 1237 1332 1428 1533 1639																Measured Value (mV)
	SLOPE (mV/dB)	12 3 1 -9 -11 -1 -2 -4 -1 0 6 0 -4 0 6																Error (mV)
		0.61 0.14 0.06 -0.46 -0.54 -0.07 0.10 -0.22 -0.05 0.02 0.29 0.02 -0.21 0.01 0.28																0.61
16.7 GHz	INTERCEPT (mV)	232 321 419 509 607 717 824 919 1032 1142 1251 1349 1446 1551 1653																Measured Value (mV)
	SLOPE (mV/dB)	21 7 2 -11 -16 -9 -5 -12 -2 5 11 6 0 2 1																Error (mV)
		1.01 0.34 0.10 -0.53 -0.77 -0.42 -0.22 -0.61 -0.11 0.23 0.53 0.29 0.00 0.10 0.06																1.01
18 GHz	INTERCEPT (mV)	215 293 391 484 581 691 797 895 1008 1123 1234 1338 1437 1541 1645																Measured Value (mV)
	SLOPE (mV/dB)	33 7 1 -11 -18 -12 -10 -17 -8 3 10 10 4 4 4																Error (mV)
		1.58 0.32 0.02 -0.51 -0.86 -0.58 -0.50 -0.79 -0.37 0.15 0.47 0.46 0.21 0.20 0.19																1.58
Flatness		1.1 1.6 1.6 1.6 1.7 1.6 1.4 1.3 1.2 1.4 1.4 1.3 1.3 1.4 1.3																
Linearity Max.(dB)=		1.68																
Linearity Min.(dB)=		-1.06																
Average Slope (mV/dB)		20.6																

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Typical Characteristics For SDLVA-2020-70-0518

LOGGING PLOTS @ +60C

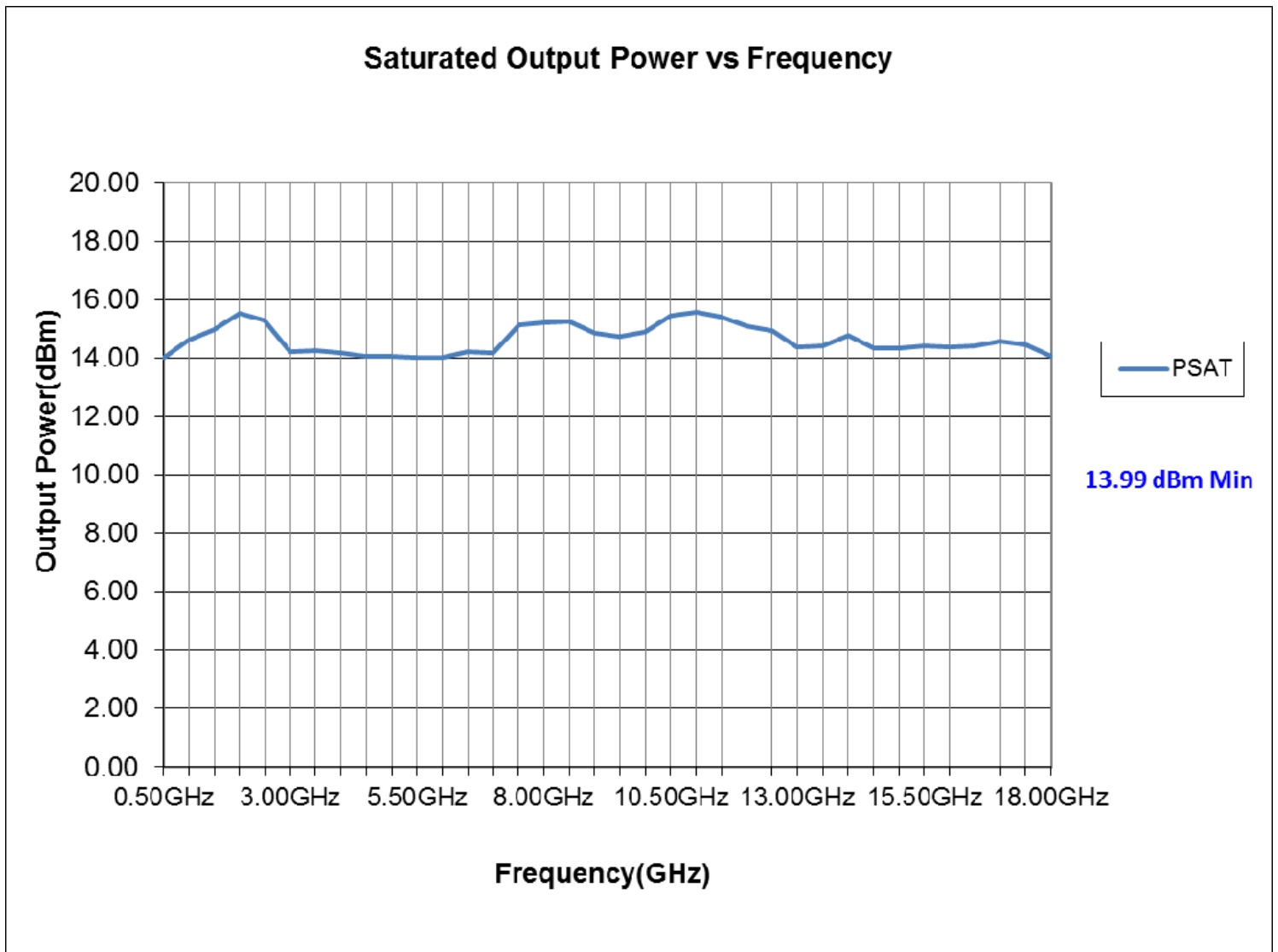


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Typical Characteristics For SDLVA-2020-70-0518

OUTPUT POWER @ +25C

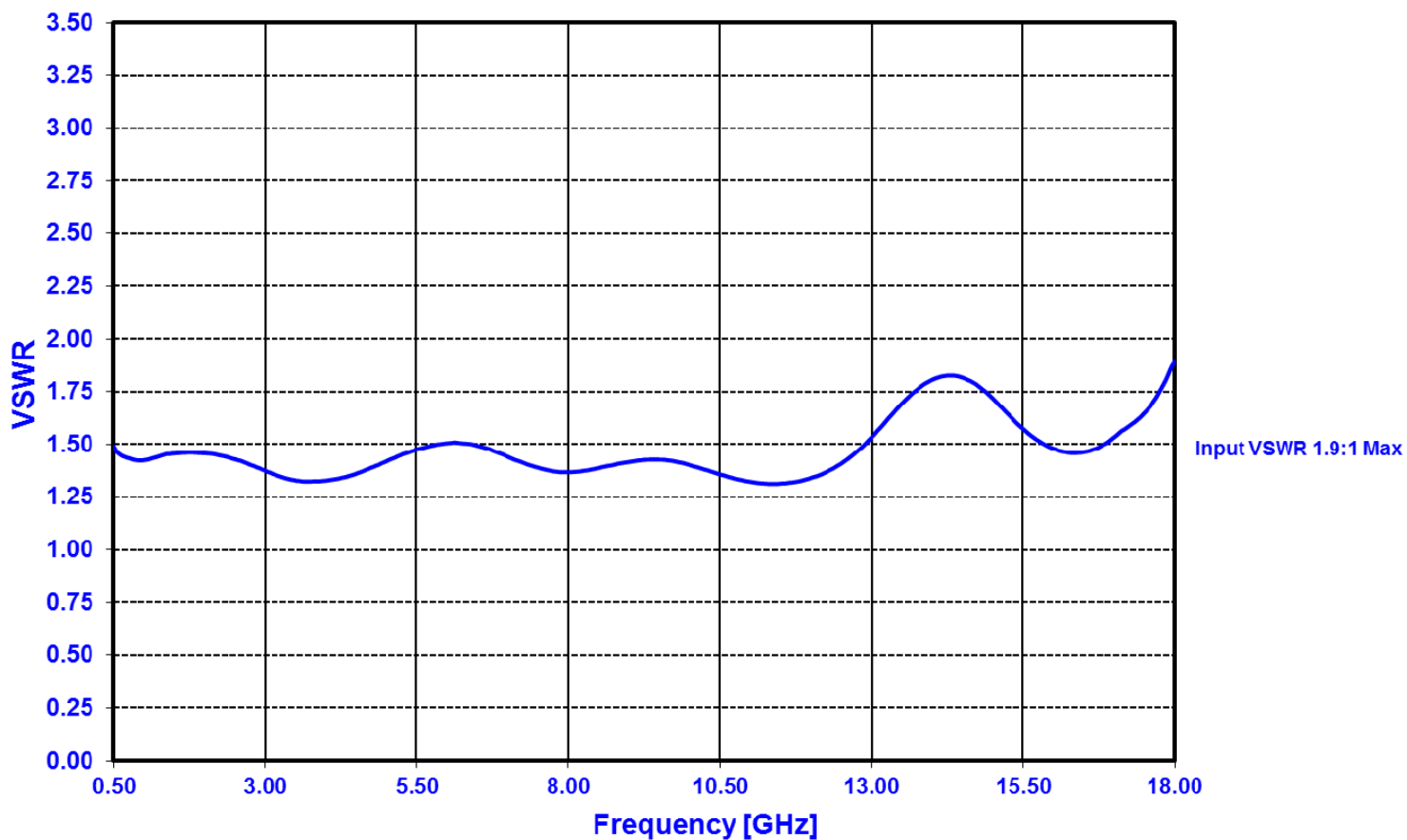




Typical Characteristics For SDLVA-2020-70-0518

VSWR @ +25C

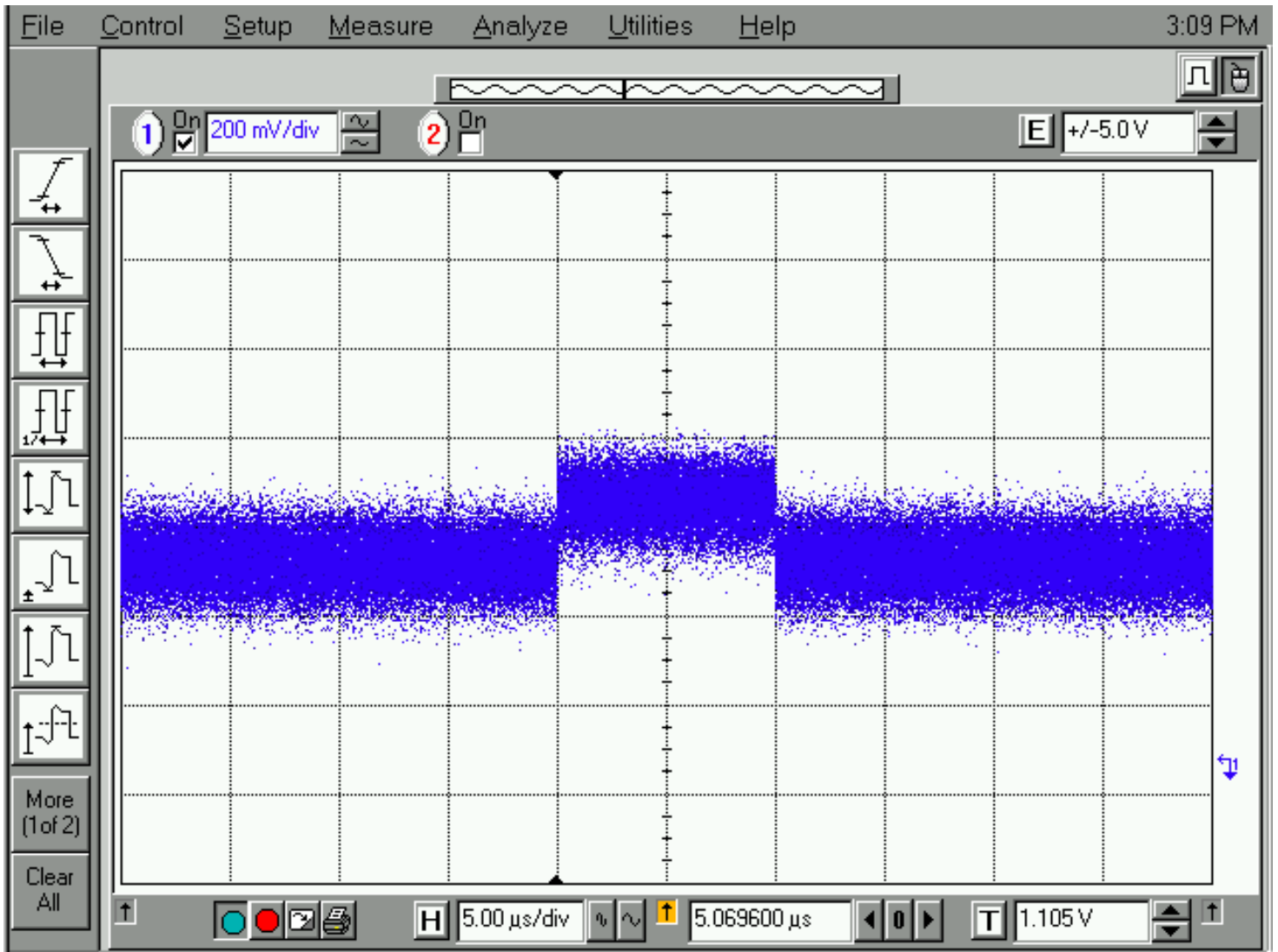
VSWR GRAPH





Typical Characteristics For SDLVA-2020-70-0518

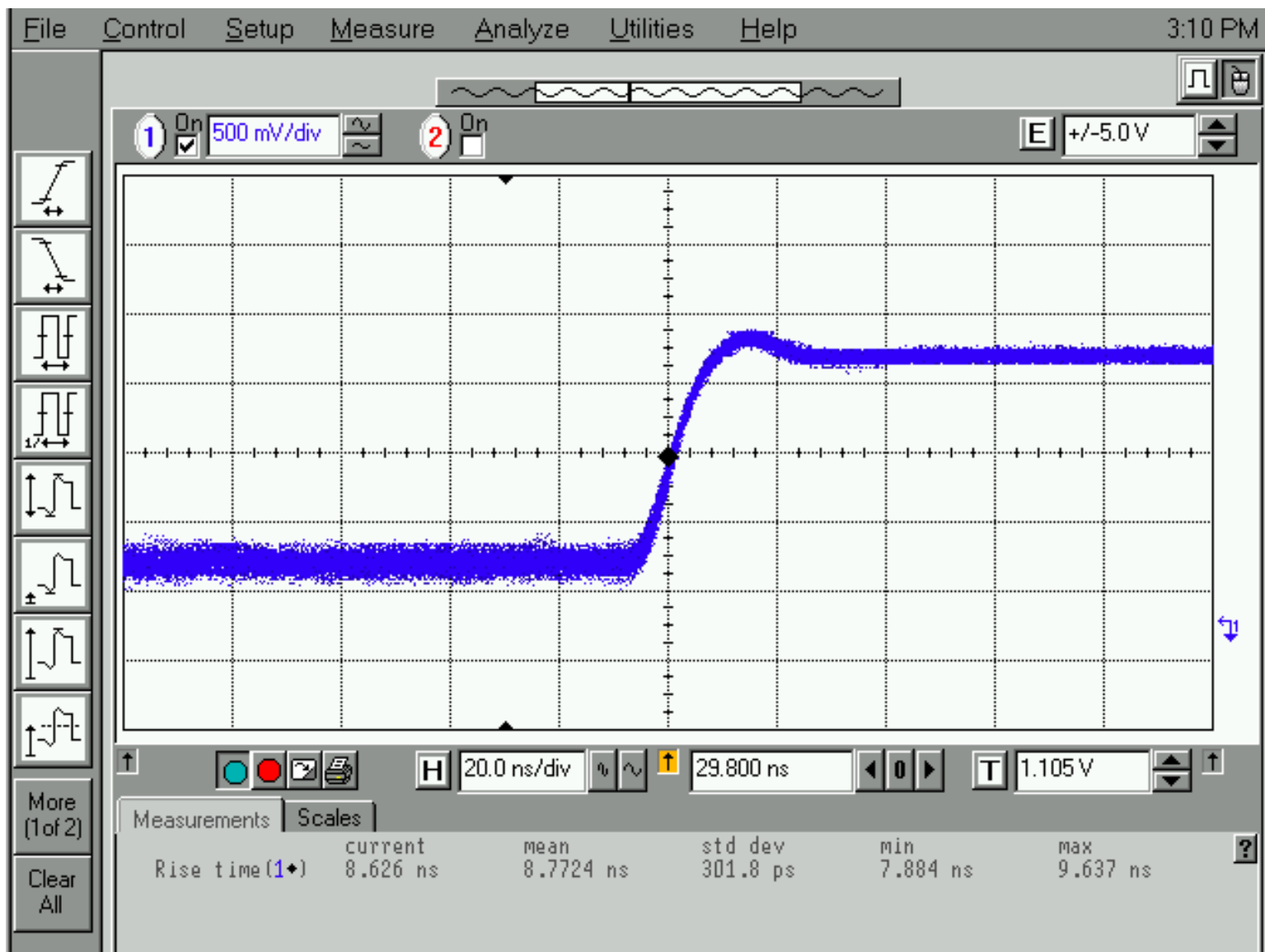
TSS (-67 dBm) @ +25C





Typical Characteristics For SDLVA-2020-70-0518

RISE @ +25C

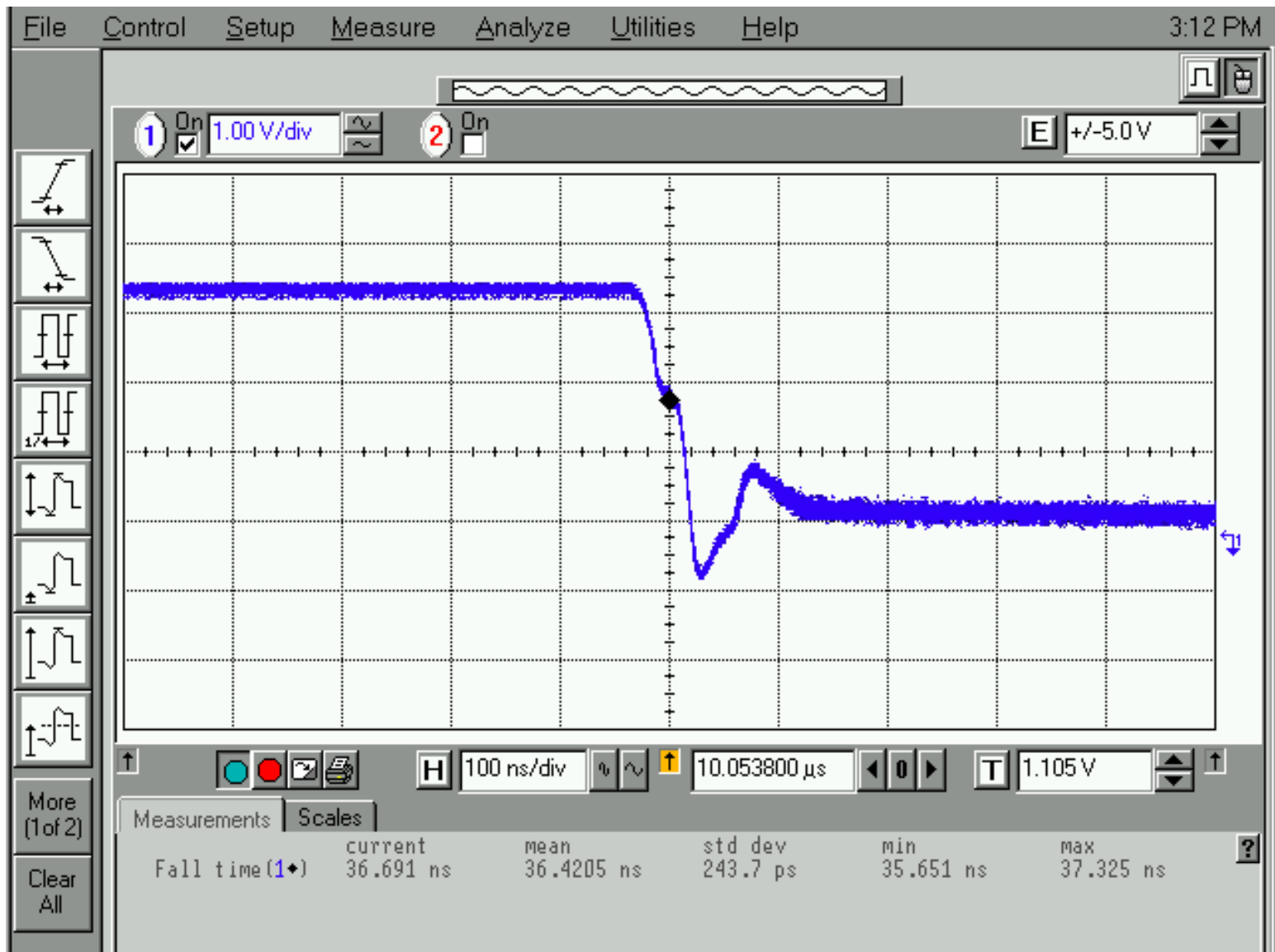


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Typical Characteristics For SDLVA-2020-70-0518

RECOVERY @ +25C



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