

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4320
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA
 TEL: 301-631-1579 FAX: 301-662-2029
 URL: WWW.PLANARMONOLITHICS.COM
 EMAIL: SALES@PLANARMONOLITHICS.COM
 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1596
 SLOPE (mV/dB) 27.45
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1533
 SLOPE (mV/dB) 26.06
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1439
 SLOPE (mV/dB) 24.34
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.82
 LINEARITY(-65 TO +5dBm) ± 0.82
 FREQUENCY FLATNESS ± 3.23

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.44V

INPUT VSWR 2:1 MAX @ 25C 1.13:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.45:1

VIDEO RISE TIME 25 nS MAX @ 25C 21 nS

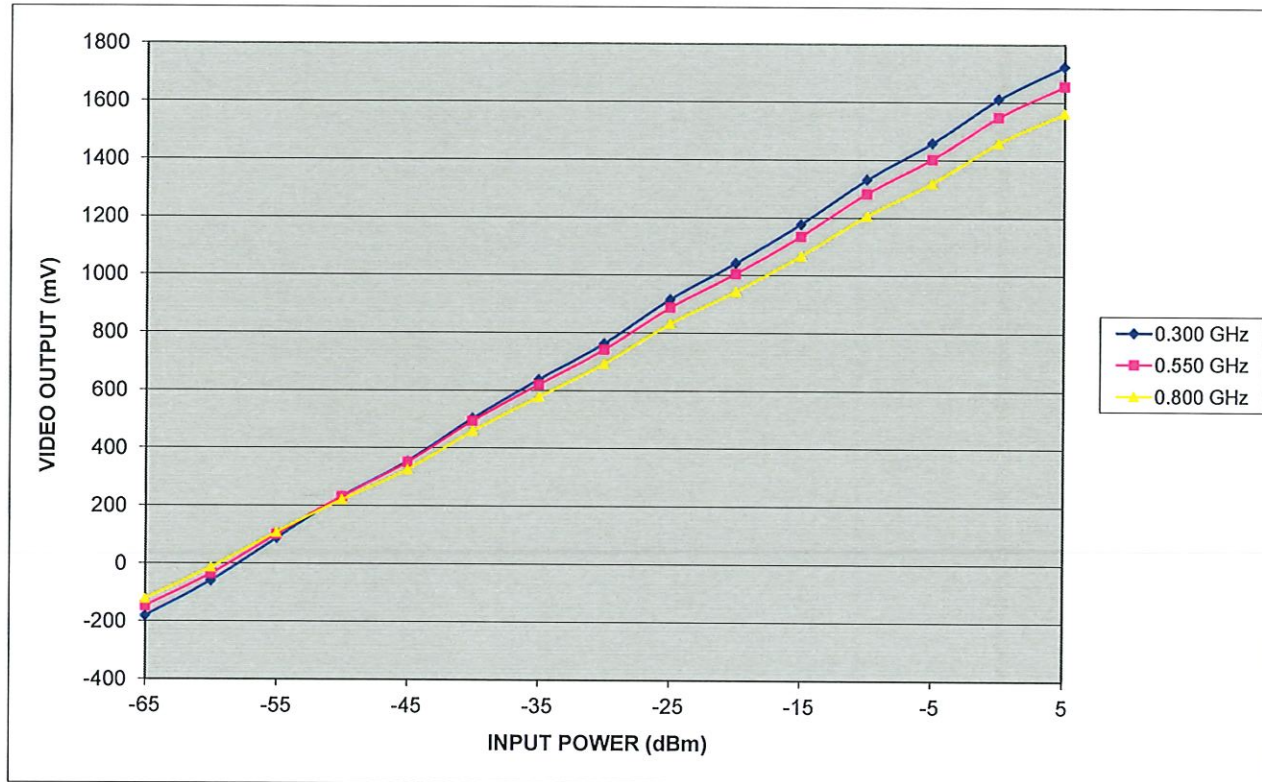
VIDEO FALL TIME 80 nS MAX @ 25C 46 nS

PROPERGATION DELAY 40 nS MAX @ 25C 13 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 118 mA

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-181	-60	88	234	354	503	637	763	916	1042	1177	1331	1459	1611	1723	
0.30 Error (mV)	6	-9	1	10	-7	4	1	-10	6	-6	-8	10	-1	14	-11	
0.30 Limited IF Output (dBm)	-16.52	-16.24	-16.15	-16.09	-16.05	-16.02	-16.00	-16.00	-15.99	-16.00	-16.01	-16.01	-16.02	-16.02	-16.02	
0.55 Measured Value (mV)	-148	-36	101	233	351	494	619	741	888	1006	1135	1283	1402	1548	1656	
0.55 Error (mV)	12	-6	1	2	-9	3	-2	-11	6	-7	-8	11	-1	15	-8	
0.55 Limited IF Output (dBm)	-16.43	-16.25	-16.15	-16.08	-16.02	-16.01	-16.05	-16.06	-16.06	-16.07	-16.07	-16.07	-16.07	-16.08	-16.11	
0.80 Measured Value (mV)	-123	-14	108	221	326	459	577	693	831	943	1067	1206	1319	1459	1561	
0.80 Error (mV)	20	7	7	-1	-18	-6	-10	-16	1	-9	-7	10	2	20	1	
0.80 Limited IF Output (dBm)	-16.35	-16.19	-16.14	-16.13	-16.11	-16.06	-16.08	-16.11	-16.12	-16.13	-16.12	-16.12	-16.12	-16.14	-16.18	



LIMITED IF OUTPUT MAX -15.99 dBm
 LIMITED IF OUTPUT MIN -16.52 dBm
 LIMITED IF FLATNESS ± 0.26 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C

MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4320

TESTED BY: H. HAHN

DATE: 8/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA
 TEL: 301-631-1579 FAX: 301-662-2029
 URL: WWW.PLANARMONOLITHICS.COM
 EMAIL: SALES@PLANARMONOLITHICS.COM
 ISO 9001:2000 CERTIFIED

Frequency

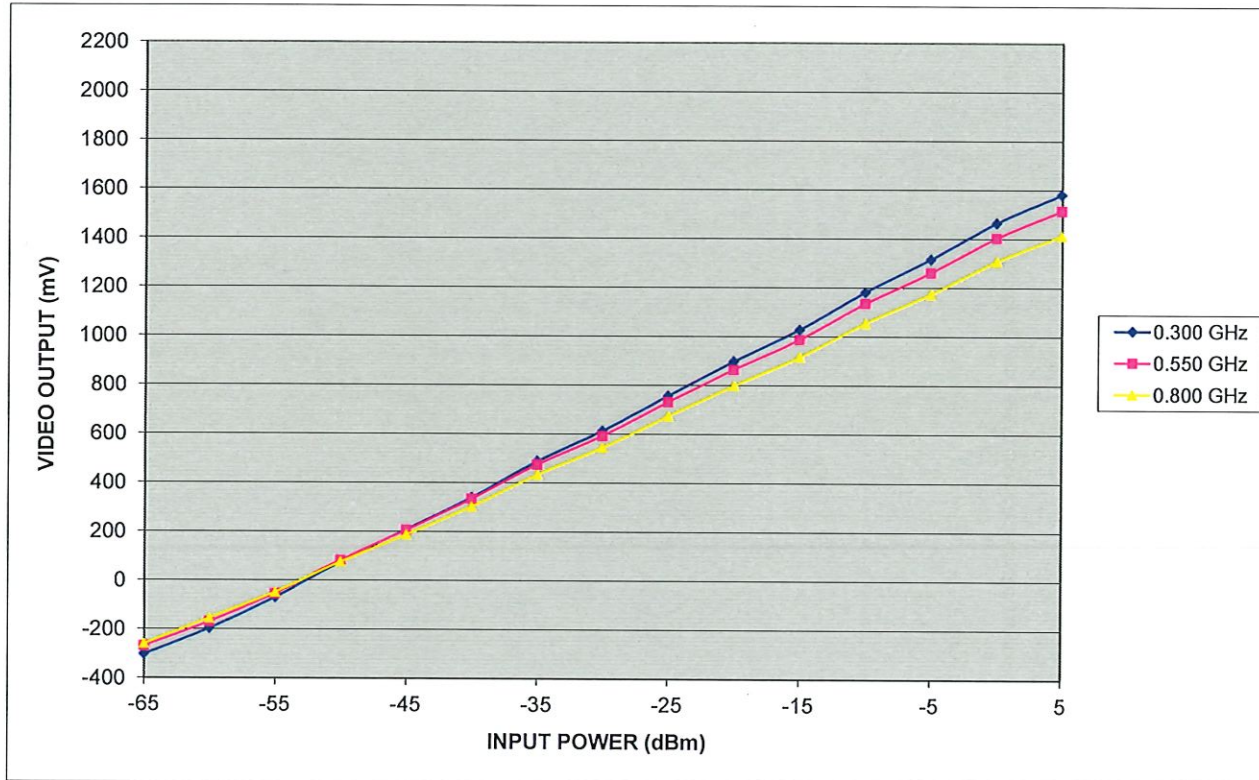
0.30 INTERCEPT (mV) 1448
 SLOPE (mV/dB) 27.41
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1386
 SLOPE (mV/dB) 26
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1287
 SLOPE (mV/dB) 24.24
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.80
 LINEARITY(-65 TO +5dBm) ± 1.31
 FREQUENCY FLATNESS ± 3.38

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-303	-197	-70	76	208	339	488	613	757	898	1027	1182	1316	1465	1582	Measured Value (mV)
0.30 Error (mV)	31	0	-10	-1	-7	-13	0	-12	-5	-2	-9	8	5	18	-2	Error (mV)
0.30 Limited IF Output (dBm)	-16.74	-16.19	-15.97	-15.86	-15.78	-15.73	-15.70	-15.69	-15.68	-15.69	-15.69	-15.70	-15.70	-15.70	-15.70	Measured Value (mV)
0.55 Measured Value (mV)	-270	-171	-55	82	206	334	475	592	731	864	987	1135	1261	1404	1515	Measured Value (mV)
0.55 Error (mV)	34	3	-11	-4	-10	-12	-1	-14	-5	-2	-9	9	5	18	-1	Error (mV)
0.55 Limited IF Output (dBm)	-16.65	-16.18	-15.97	-15.85	-15.77	-15.73	-15.72	-15.73	-15.76	-15.76	-15.76	-15.76	-15.76	-15.77	-15.80	Measured Value (mV)
0.80 Measured Value (mV)	-261	-156	-50	75	187	301	433	543	673	797	914	1053	1173	1307	1413	Measured Value (mV)
0.80 Error (mV)	27	11	-4	0	-10	-16	-6	-17	-8	-5	-9	8	6	19	5	Error (mV)
0.80 Limited IF Output (dBm)	-16.45	-16.06	-15.91	-15.83	-15.80	-15.80	-15.81	-15.82	-15.82	-15.83	-15.83	-15.83	-15.84	-15.85	-15.89	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.68 dBm
 LIMITED IF OUTPUT MIN -16.74 dBm
 LIMITED IF FLATNESS ± 0.53 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4320
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA
 TEL: 301-631-1579 FAX: 301-662-2029
 URL: WWW.PLANARMONOLITHICS.COM
 EMAIL: SALES@PLANARMONOLITHICS.COM
 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1410
 SLOPE (mV/dB) 27.49
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1349
 SLOPE (mV/dB) 26.05
 LIMITED IF OUTPUT (dBm)

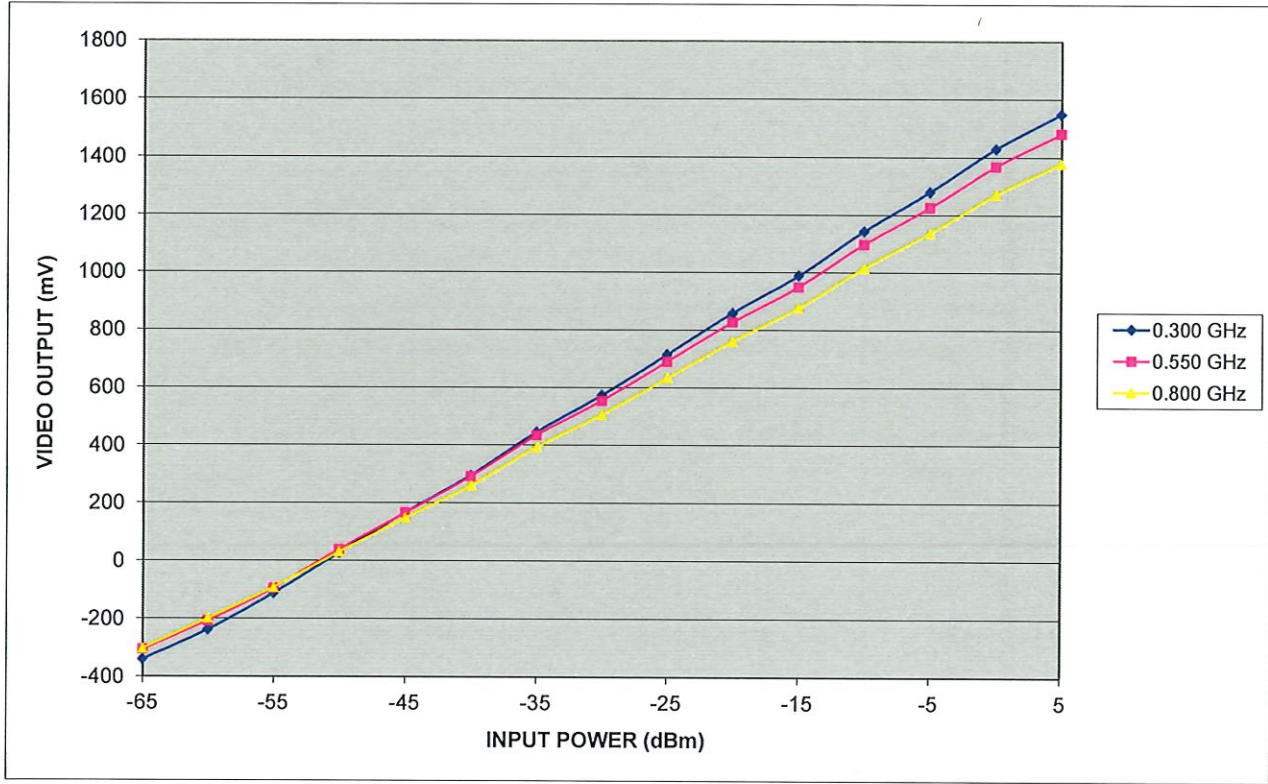
0.80 INTERCEPT (mV) 1251
 SLOPE (mV/dB) 24.35
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.43
 FREQUENCY FLATNESS ± 3.40

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-340	-238	-113	29	167	295	446	573	715	859	989	1143	1279	1428	1547	
0.30 Error (mV)	37	2	-11	-6	-6	-15	-2	-12	-8	-1	-9	8	7	18	0	
0.30 Limited IF Output (dBm)	-16.98	-16.34	-16.06	-16.93	-16.85	-16.80	-16.77	-16.75	-16.76	-16.75	-16.75	-16.76	-16.76	-16.76	-16.76	
0.55 Measured Value (mV)	-307	-208	-95	39	167	292	435	555	691	827	949	1097	1225	1367	1480	
0.55 Error (mV)	37	6	-11	-7	-10	-15	-3	-13	-7	-1	-9	8	6	18	1	
0.55 Limited IF Output (dBm)	-16.74	-16.29	-16.06	-16.93	-16.85	-16.81	-16.80	-16.81	-16.82	-16.82	-16.83	-16.83	-16.83	-16.84	-16.86	
0.80 Measured Value (mV)	-304	-200	-93	31	148	260	393	506	633	760	876	1015	1136	1270	1377	
0.80 Error (mV)	27	10	-5	-3	-7	-17	-6	-15	-10	-4	-9	7	7	19	4	
0.80 Limited IF Output (dBm)	-16.67	-16.21	-16.02	-16.92	-16.89	-16.89	-16.89	-16.90	-16.90	-16.90	-16.90	-16.90	-16.91	-16.93	-16.96	

TSS 95C
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.35V



LIMITED IF OUTPUT MAX -15.75 dBm
 LIMITED IF OUTPUT MIN -16.98 dBm
 LIMITED IF FLATNESS ± 0.62 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4320
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA
 TEL: 301-631-1579 FAX: 301-662-2029
 URL: WWW.PLANARMONOLITHICS.COM
 EMAIL: SALES@PLANARMONOLITHICS.COM
 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1901
 SLOPE (mV/dB) 28.71
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1840
 SLOPE (mV/dB) 27.57
 LIMITED IF OUTPUT (dBm)

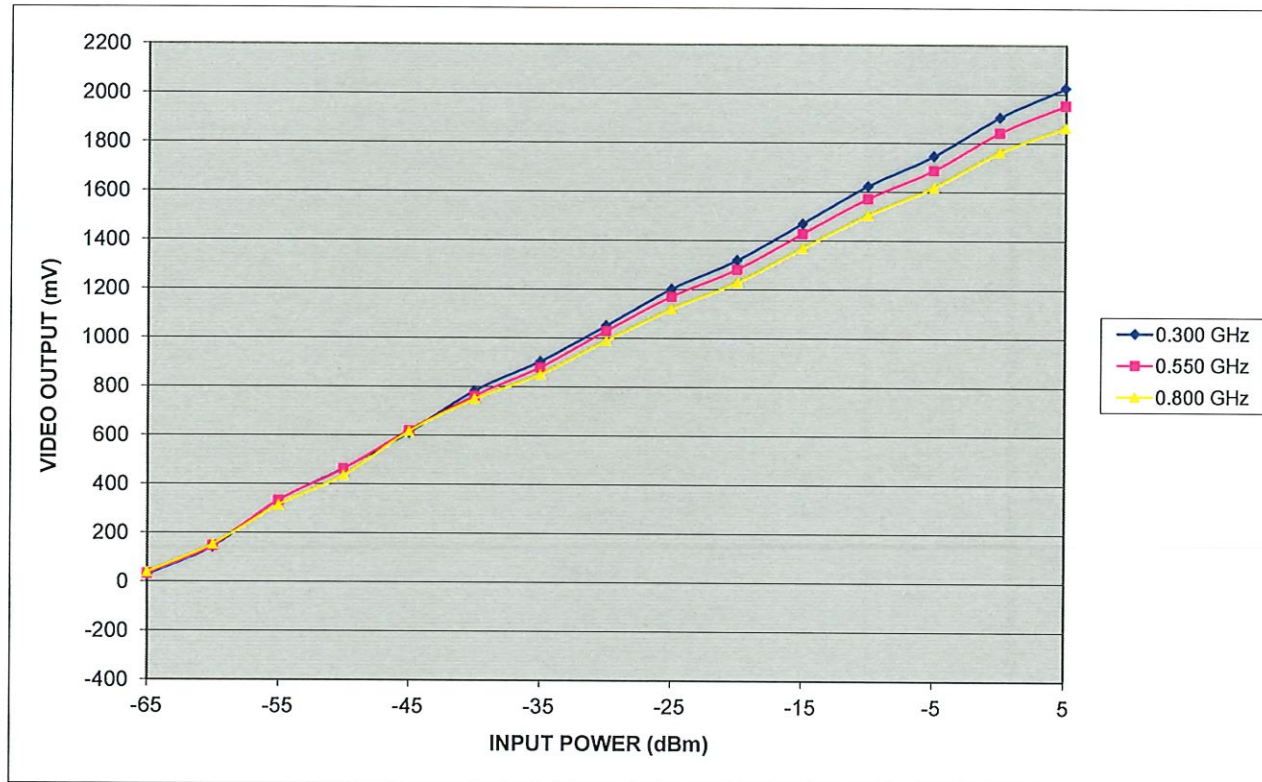
0.80 INTERCEPT (mV) 1760
 SLOPE (mV/dB) 26.22
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.45
 LINEARITY(-65 TO +5dBm) ± 1.45
 FREQUENCY FLATNESS ± 3.22

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	28	143	331	462	610	783	903	1050	1201	1318	1469	1622	1745	1904	2024	
0.30 Error (mV)	-7	-35	9	-3	1	31	7	10	18	-8	-1	8	-12	3	-21	
0.30 Measured Value (mV)	-16.08	-15.93	-15.84	-15.85	-15.90	-15.95	-15.97	-15.97	-15.99	-16.02	-16.02	-16.02	-16.02	-16.02	-16.02	
0.55 Measured Value (mV)	32	146	332	461	618	761	879	1028	1170	1280	1427	1572	1687	1841	1953	
0.55 Error (mV)	-16	-40	8	0	19	25	4	16	19	-8	1	8	-15	2	-24	
0.55 Measured Value (mV)	-16.06	-15.92	-15.81	-15.85	-15.94	-15.97	-15.84	-15.89	-15.94	-15.97	-15.97	-15.96	-15.96	-15.96	-15.97	
0.80 Measured Value (mV)	37	151	313	435	615	749	849	988	1118	1227	1368	1503	1616	1762	1863	
0.80 Error (mV)	-18	-35	-5	-13	36	38	7	15	14	-8	2	5	-12	2	-28	
0.80 Measured Value (mV)	-16.04	-15.90	-15.85	-15.89	-15.94	-16.01	-15.95	-15.88	-16.90	-16.92	-16.90	-16.90	-16.89	-16.93	-16.03	

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V



LIMITED IF OUTPUT MAX -15.81 dBm
 LIMITED IF OUTPUT MIN -16.08 dBm
 LIMITED IF FLATNESS ± 0.13 dBm