

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4357  
 TESTED BY: H. HAHN  
 DATE: 13/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) 1605  
 SLOPE (mV/dB) 27.79  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1539  
 SLOPE (mV/dB) 26.36  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1440  
 SLOPE (mV/dB) 24.62  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77  
 LINEARITY(-65 TO +5dBm) ± 0.92  
 FREQUENCY FLATNESS ± 3.41

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-191	-69	72	224	346	492	635	761	915	1045	1180	1337	1467	1620	1732	
0.30 Error (mV)	10	-6	-4	9	-8	-1	3	-11	5	-4	-8	10	1	15	-12	
0.30 Limited IF Output (dBm)	-16.70	-16.38	-16.27	-16.20	-16.15	-16.11	-16.09	-16.09	-16.08	-16.09	-16.10	-16.11	-16.11	-16.11	-16.12	
0.55 Measured Value (mV)	-158	-47	85	223	342	484	617	738	885	1007	1135	1286	1408	1554	1661	
0.55 Error (mV)	17	-4	-4	2	-11	-1	0	-10	5	-5	-8	11	1	15	-9	
0.55 Limited IF Output (dBm)	-16.60	-16.38	-16.26	-16.17	-16.09	-16.08	-16.12	-16.13	-16.13	-16.15	-16.15	-16.15	-16.15	-16.15	-16.18	
0.80 Measured Value (mV)	-137	-31	88	210	315	446	572	687	826	941	1064	1205	1321	1459	1562	
0.80 Error (mV)	23	6	1	1	-18	-9	-7	-15	1	-7	-8	11	4	19	-2	
0.80 Limited IF Output (dBm)	-16.50	-16.31	-16.23	-16.19	-16.16	-16.12	-16.14	-16.17	-16.18	-16.19	-16.19	-16.19	-16.19	-16.20	-16.24	

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.46V

INPUT VSWR 2:1 MAX @ 25C  
 1.18:1

IF OUTPUT VSWR 2:1 MAX @ 25C  
 1.39:1

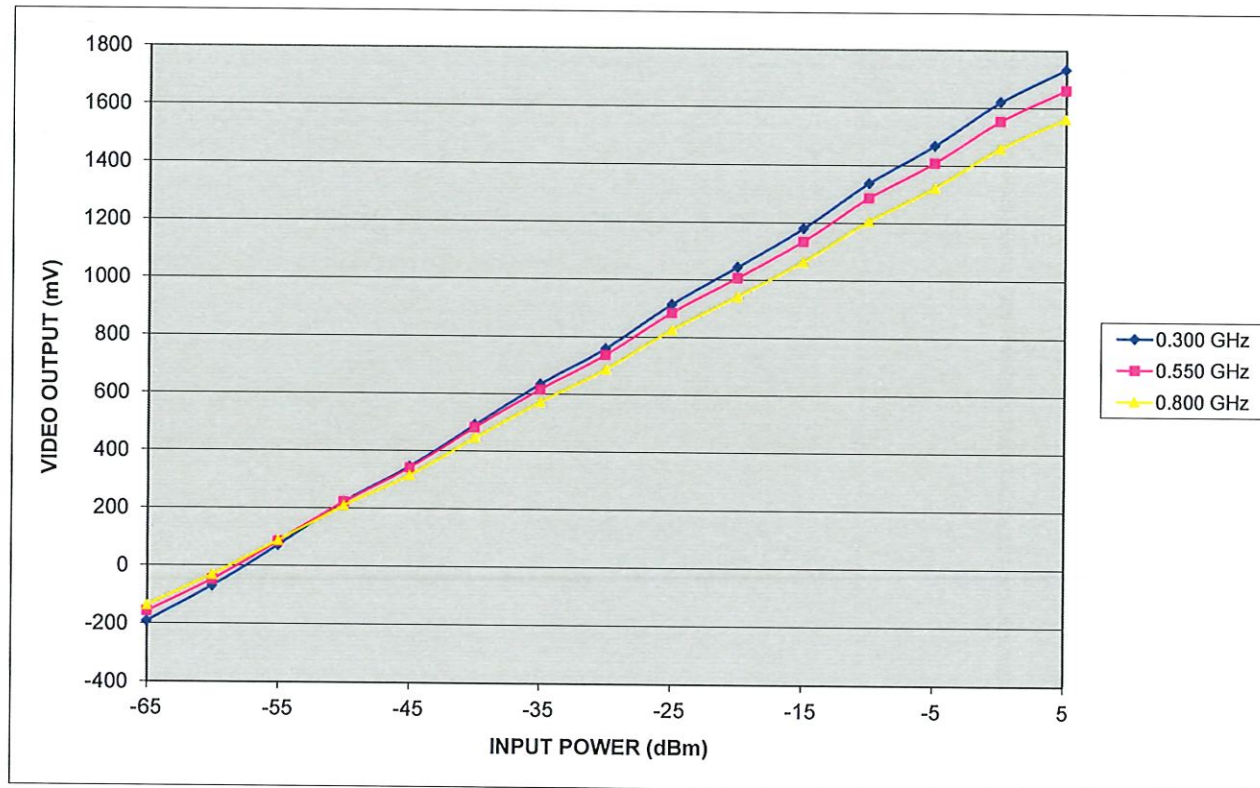
VIDEO RISE TIME 25 nS MAX @ 25C  
 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C  
 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C  
 12 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -16.08 dBm  
 LIMITED IF OUTPUT MIN -16.70 dBm  
 LIMITED IF FLATNESS ± 0.31 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4357  
 TESTED BY: H. HAHN  
 DATE: 13/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

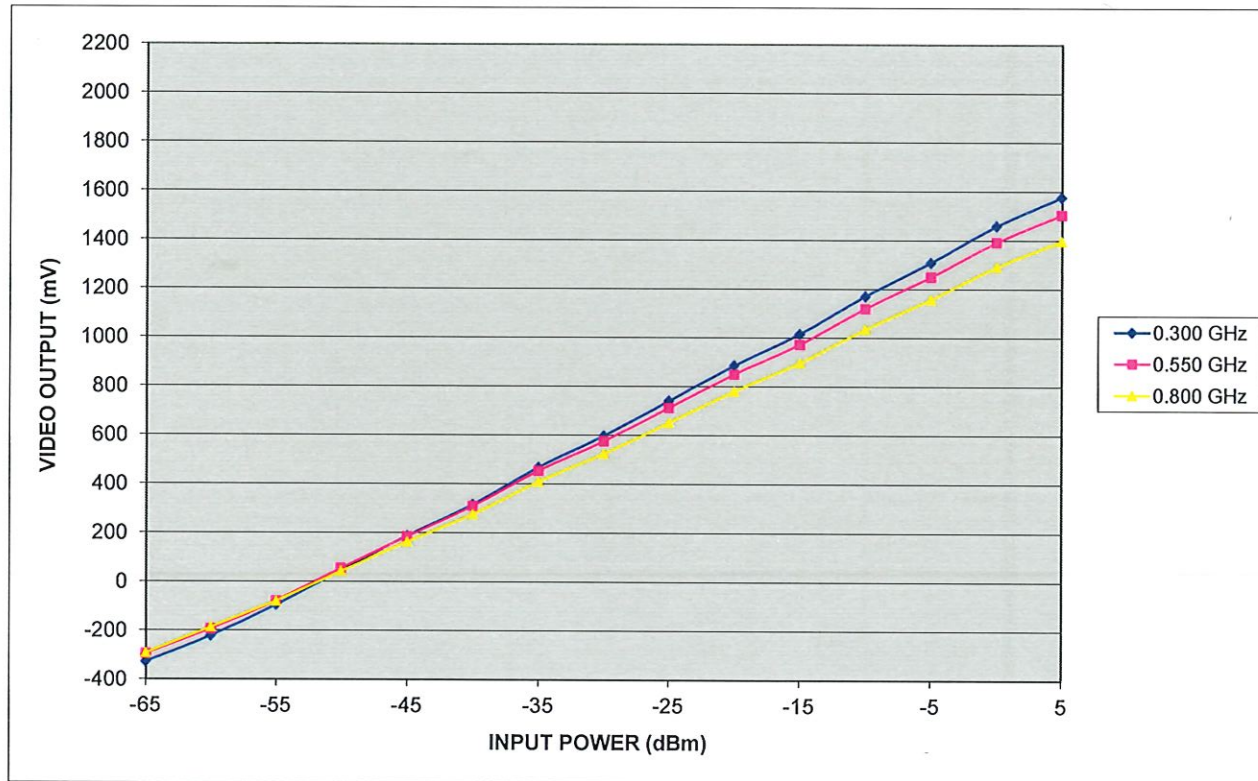
0.30 INTERCEPT (mV) 1440  
 SLOPE (mV/dB) 27.75  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1375  
 SLOPE (mV/dB) 26.26  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1272  
 SLOPE (mV/dB) 24.52  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75  
 LINEARITY(-65 TO +5dBm) ± 1.37  
 FREQUENCY FLATNESS ± 3.58

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-329	-223	-97	46	186	315	467	597	740	885	1015	1171	1309	1459	1576	Measured Value (mV)
0.30 Error (mV)	35	2	-11	-7	-5	-15	-2	-11	-7	0	-9	8	7	18	-3	Error (mV)
0.30 Limited If Output (dBm)	-17.01	-16.35	-16.07	-15.94	-15.86	-15.80	-15.77	-15.75	-15.75	-15.75	-15.76	-15.76	-15.76	-15.77	-15.77	Limited If Output (dBm)
0.55 Measured Value (mV)	-296	-195	-81	54	184	309	453	575	712	849	972	1121	1250	1393	1505	Measured Value (mV)
0.55 Error (mV)	36	6	-12	-8	-9	-16	-2	-12	-6	-1	-9	9	7	18	-1	Error (mV)
0.55 Limited If Output (dBm)	-16.76	-16.31	-16.07	-15.93	-15.84	-15.79	-15.79	-15.80	-15.81	-15.82	-15.82	-15.82	-15.83	-15.83	-15.86	Limited If Output (dBm)
0.80 Measured Value (mV)	-294	-188	-81	42	162	275	409	523	651	779	896	1034	1167	1291	1397	Measured Value (mV)
0.80 Error (mV)	27	11	-5	-4	-7	-17	-6	-14	-9	-3	-9	7	7	18	2	Error (mV)
0.80 Limited If Output (dBm)	-16.69	-16.22	-16.01	-15.90	-15.85	-15.85	-15.86	-15.87	-15.87	-15.88	-15.88	-15.88	-15.88	-15.89	-15.90	Limited If Output (dBm)



LIMITED IF OUTPUT MAX -15.75 dBm  
 LIMITED IF OUTPUT MIN -17.01 dBm  
 LIMITED IF FLATNESS ± 0.63 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4357  
 TESTED BY: H. HAHN  
 DATE: 13/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) 1421  
 SLOPE (mV/dB) 27.8  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1356  
 SLOPE (mV/dB) 26.29  
 LIMITED IF OUTPUT (dBm)

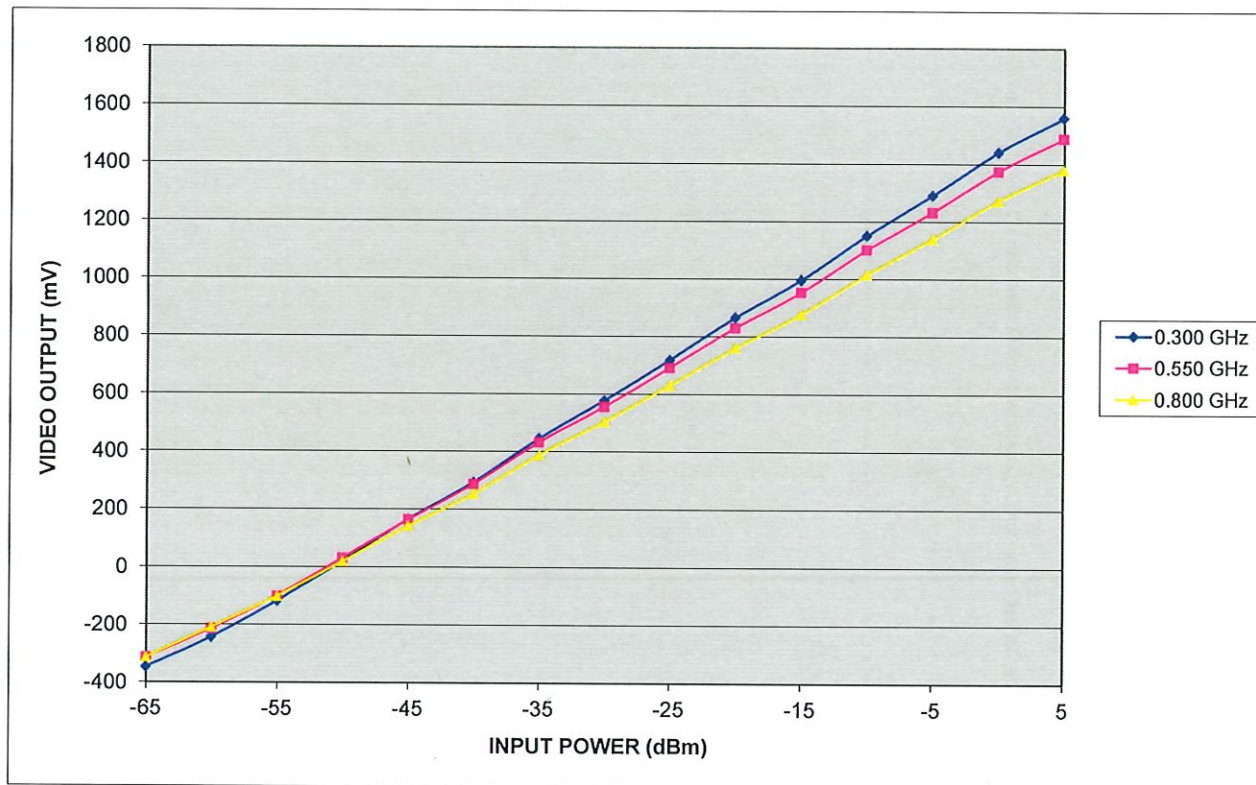
0.80 INTERCEPT (mV) 1253  
 SLOPE (mV/dB) 24.56  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.74  
 LINEARITY(-65 TO +5dBm) ± 1.46  
 FREQUENCY FLATNESS ± 3.61

TSS 95C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 95C  
 2.7V MAX 2.54V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-347	-244	-118	22	165	293	445	577	718	866	996	1151	1290	1440	1559	Measured Value (mV)
0.30 Error (mV)	38	2	-10	-10	-5	-16	-3	-10	-8	0	-9	7	8	18	-1	Error (mV)
0.30 Measured Value (mV)	-17.28	-16.57	-16.25	-16.11	-16.02	-15.96	-15.92	-15.91	-15.90	-15.90	-15.91	-15.91	-15.92	-15.92	-15.92	Measured Value (mV)
0.55 Measured Value (mV)	-315	-215	-102	31	164	287	432	556	691	830	953	1101	1232	1374	1487	Measured Value (mV)
0.55 Error (mV)	38	7	-12	-10	-9	-17	-4	-11	-7	0	-9	8	7	18	0	Error (mV)
0.55 Measured Value (mV)	-17.01	-16.51	-16.25	-16.10	-16.00	-15.95	-15.94	-15.95	-15.96	-15.97	-15.97	-15.97	-15.98	-15.99	-16.01	Measured Value (mV)
0.80 Measured Value (mV)	-315	-210	-102	19	142	253	387	504	630	760	876	1014	1138	1271	1379	Measured Value (mV)
0.80 Error (mV)	29	10	-5	-6	-6	-17	-6	-13	-10	-2	-9	7	8	18	3	Error (mV)
0.80 Measured Value (mV)	-16.96	-16.43	-16.19	-16.06	-16.01	-16.01	-16.02	-16.03	-16.03	-16.03	-16.03	-16.04	-16.04	-16.06	-16.08	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.90 dBm  
 LIMITED IF OUTPUT MIN -17.28 dBm  
 LIMITED IF FLATNESS ± 0.69 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4357  
 TESTED BY: H. HAHN  
 DATE: 13/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) 1882  
 SLOPE (mV/dB) 28.89  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1815  
 SLOPE (mV/dB) 27.49  
 LIMITED IF OUTPUT (dBm)

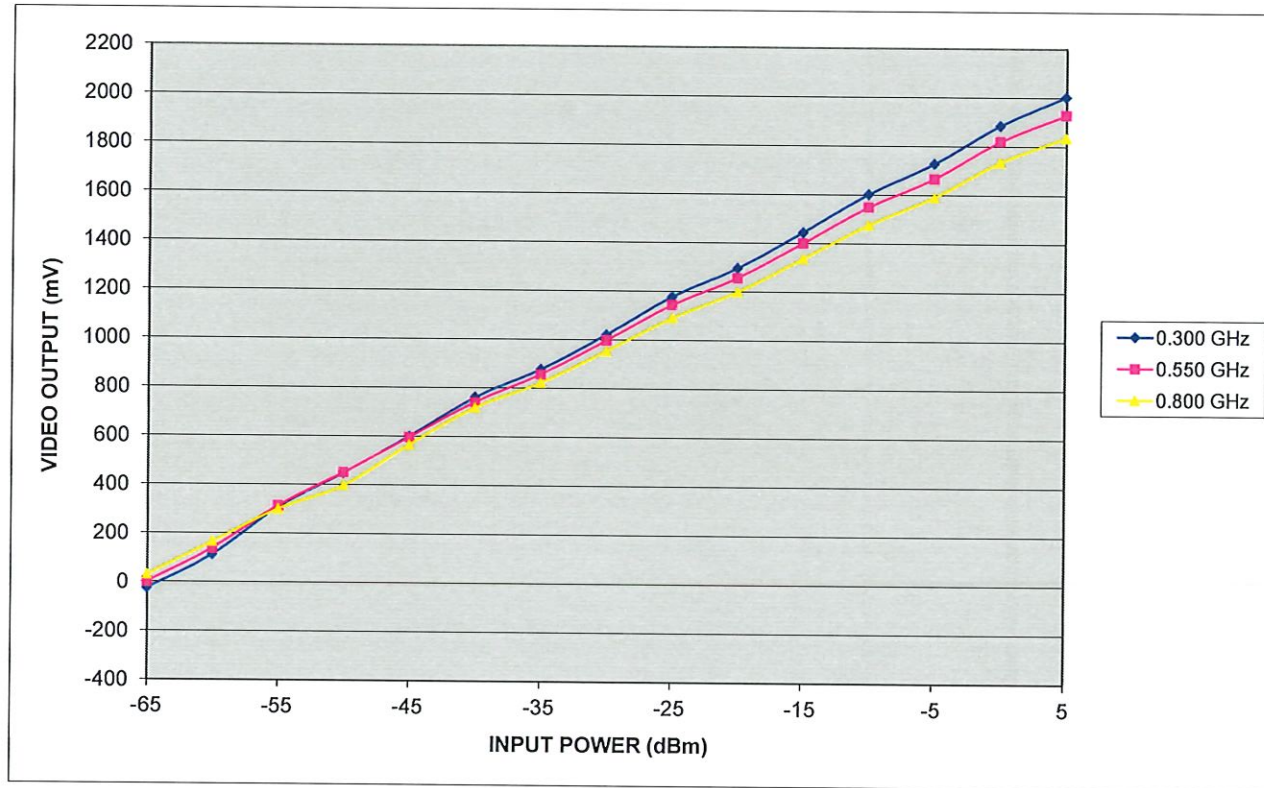
0.80 INTERCEPT (mV) 1726  
 SLOPE (mV/dB) 25.98  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.28  
 LINEARITY(-65 TO +5dBm) ± 1.28  
 FREQUENCY FLATNESS ± 3.35

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30	-25	112	307	448	600	761	877	1020	1177	1296	1444	1602	1727	1885	2002	Measured Value (mV)
0.30	-30	-37	14	11	18	34	6	5	17	-9	-5	8	-11	3	-25	Error (mV)
0.30	-15.81	-15.77	-15.94	-16.02	-16.01	-16.03	-16.05	-16.03	-16.03	-16.05	-16.06	-16.07	-16.08	-16.08	-16.08	Measured Value (mV)
0.55	0	137	313	450	596	741	856	998	1144	1256	1400	1549	1666	1820	1929	Measured Value (mV)
0.55	-28	-29	10	10	18	26	3	8	17	-9	-3	9	-11	5	-24	Error (mV)
0.55	-15.76	-15.77	-15.80	-15.88	-16.01	-16.98	-15.92	-15.94	-15.97	-16.00	-16.00	-15.99	-15.99	-15.99	-16.01	Measured Value (mV)
0.80	29	163	299	396	565	718	821	953	1089	1198	1335	1475	1589	1734	1835	Measured Value (mV)
0.80	-9	-4	2	-31	8	31	4	6	13	-9	-1	9	-7	8	-21	Error (mV)
0.80	-15.74	-15.73	-15.77	-15.83	-15.88	-15.96	-15.94	-15.91	-15.94	-15.95	-15.94	-15.93	-15.94	-15.96	-16.02	Measured Value (mV)

TSS -54C  
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C  
 2.7V MAX 2.7V



LIMITED IF OUTPUT MAX -15.73 dBm  
 LIMITED IF OUTPUT MIN -16.08 dBm  
 LIMITED IF FLATNESS ± 0.18 dBm