

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4312
 TESTED BY: H. HAHN
 DATE: 6/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) 1612
 SLOPE (mV/dB) 27.52
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1547
 SLOPE (mV/dB) 26.14
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1455
 SLOPE (mV/dB) 24.58
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77
 LINEARITY(-65 TO +5dBm) ± 0.77
 FREQUENCY FLATNESS ± 3.25

TSS 25C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.45V

INPUT VSWR
 2:1 MAX @ 25C 1.17:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.23:1

VIDEO RISE TIME
 25 nS MAX @ 25C 18 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 46 nS

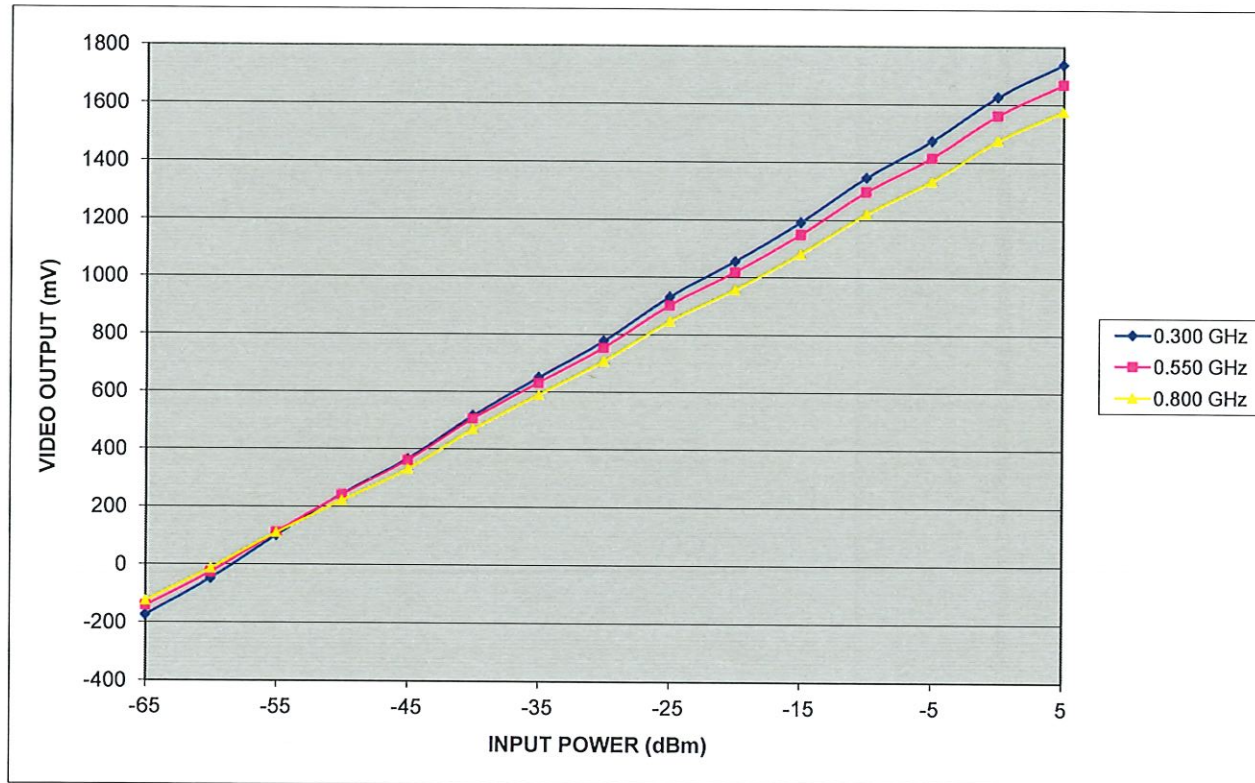
PROPERGATION DELAY
 40 nS MAX @ 25C 16 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 117 mA

-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 RF Input Power (dBm)

-174	-47	102	244	366	517	650	777	931	1055	1192	1346	1473	1626	1738	Measured Value (mV)
3	-8	3	8	-8	6	1	-9	7	-6	-7	10	-1	14	-12	Error (mV)
-16.40	-16.21	-16.18	-16.14	-16.10	-16.06	-16.04	-16.03	-16.03	-16.03	-16.04	-16.05	-16.05	-16.05	-16.05	Measured Value (mV)
-142	-27	111	243	362	507	631	754	902	1018	1148	1297	1415	1562	1669	Measured Value (mV)
10	-6	1	3	-10	5	-2	-9	8	-7	-7	11	-2	15	-9	Error (mV)
-16.35	-16.23	-16.17	-16.08	-16.02	-16.02	-16.07	-16.07	-16.07	-16.08	-16.09	-16.08	-16.08	-16.10	-16.12	Measured Value (mV)
-125	-14	110	222	330	469	589	706	845	956	1081	1220	1333	1474	1575	Measured Value (mV)
17	6	7	-4	-19	-3	-7	-12	4	-8	-6	10	1	18	-3	Error (mV)
-16.29	-16.17	-16.13	-16.12	-16.06	-16.00	-16.05	-16.08	-16.10	-16.11	-16.11	-16.11	-16.11	-16.13	-16.18	Measured Value (mV)



LIMITED IF OUTPUT MAX -16.00 dBm
 LIMITED IF OUTPUT MIN -16.40 dBm
 LIMITED IF FLATNESS ± 0.20 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4312
 TESTED BY: H. HAHN
 DATE: 6/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

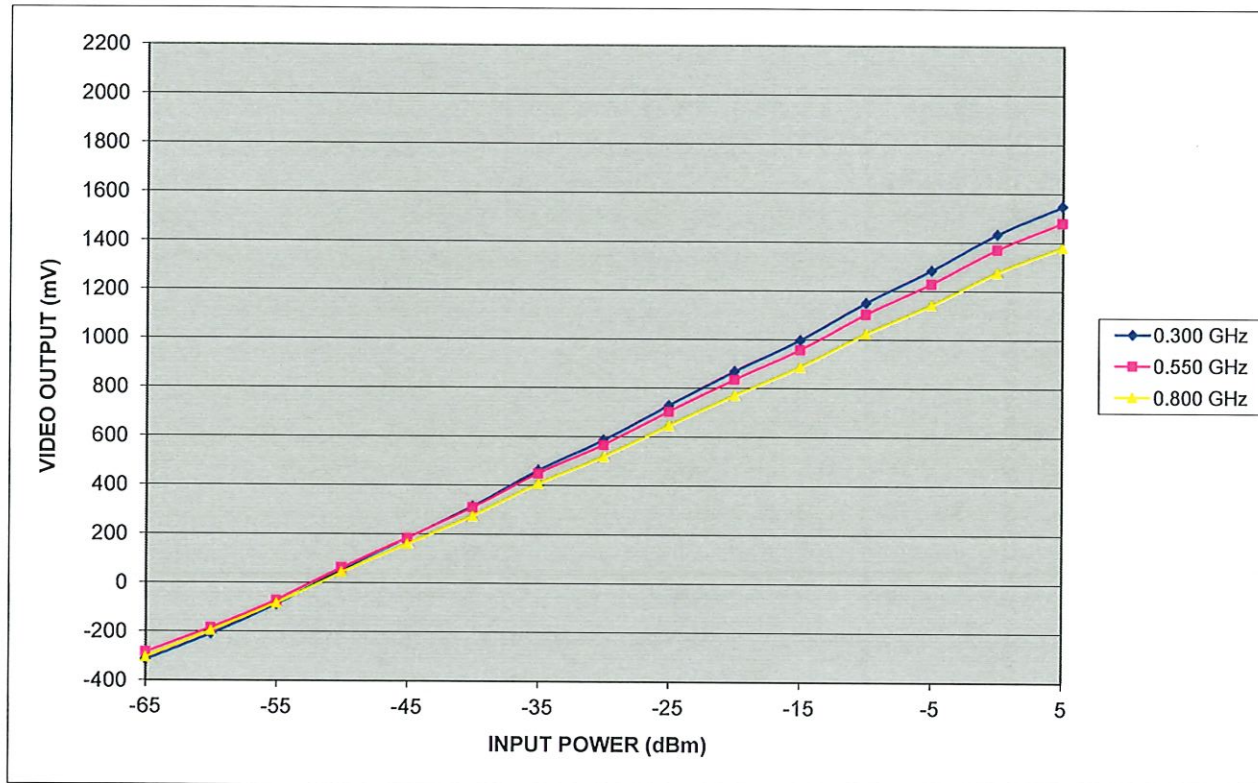
0.30 INTERCEPT (mV) 1412
 SLOPE (mV/dB) 27.1
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1351
 SLOPE (mV/dB) 25.69
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1258
 SLOPE (mV/dB) 24.32
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 1.34
 FREQUENCY FLATNESS ± 3.37

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-315	-209	-88	53	183	313	461	586	729	868	997	1150	1283	1432	1547	
0.30 Error (mV)	34	5	-10	-4	-10	-16	-3	-14	-6	-2	-9	9	6	20	-1	
0.30 Limited If Output (dBm)	-16.87	-16.37	-16.16	-16.05	-16.98	-16.92	-16.89	-16.87	-16.87	-16.87	-16.87	-16.88	-16.87	-16.87	-16.86	
0.55 Measured Value (mV)	-285	-185	-72	62	183	309	449	566	703	834	956	1103	1228	1370	1479	
0.55 Error (mV)	17	5	-4	2	-5	-12	-2	-12	-5	-3	-9	9	6	19	0	
0.55 Limited If Output (dBm)	-16.70	-16.33	-16.14	-16.03	-16.94	-16.90	-16.90	-16.91	-16.92	-16.93	-16.94	-16.94	-16.94	-16.95	-16.98	
0.80 Measured Value (mV)	-306	-197	-84	43	158	273	405	516	645	768	884	1022	1140	1274	1378	
0.80 Error (mV)	17	5	-4	2	-5	-12	-2	-12	-5	-3	-9	7	4	16	-1	
0.80 Limited If Output (dBm)	-16.79	-16.30	-16.10	-16.00	-16.96	-16.96	-16.97	-16.98	-16.99	-16.99	-16.99	-16.00	-16.01	-16.04	-16.09	



LIMITED IF OUTPUT MAX -15.86 dBm
 LIMITED IF OUTPUT MIN -16.87 dBm
 LIMITED IF FLATNESS ± 0.51 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4312
 TESTED BY: H. HAHN
 DATE: 4/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) 1392
 SLOPE (mV/dB) 27.07
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1330
 SLOPE (mV/dB) 25.68
 LIMITED IF OUTPUT (dBm)

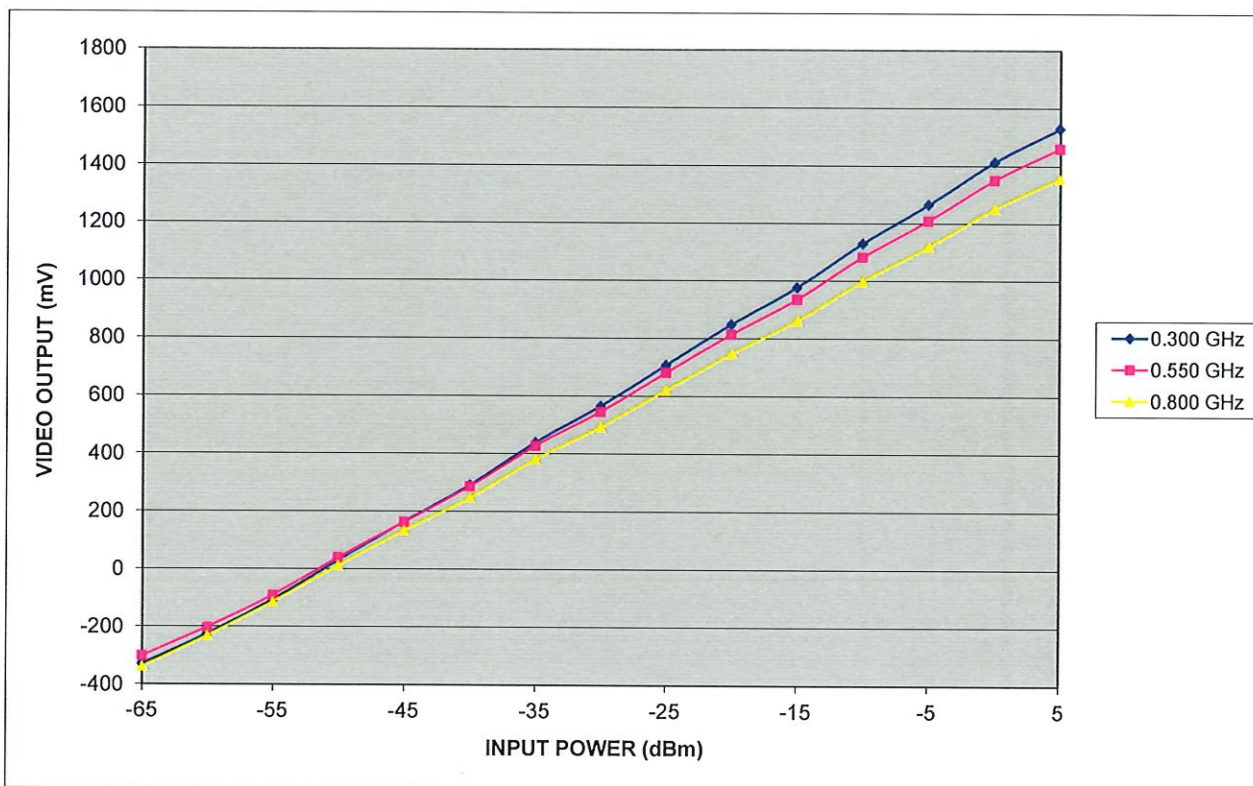
0.80 INTERCEPT (mV) 1237
 SLOPE (mV/dB) 24.49
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77
 LINEARITY(-65 TO +5dBm) ± 1.42
 FREQUENCY FLATNESS ± 3.45

TSS 95C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.33V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-330	-226	-107	31	164	291	440	566	707	848	977	1130	1264	1413	1528	Measured Value (mV)
0.30 Error (mV)	38	7	-10	-7	-10	-18	-5	-14	-8	-2	-9	8	7	21	1	Error (mV)
0.30 Limited If Output (dBm)	-17.11	-16.67	-16.33	-16.21	-16.13	-16.08	-16.04	-16.03	-16.02	-16.02	-16.02	-16.02	-16.02	-16.01	-15.99	Measured Value (mV)
0.55 Measured Value (mV)	-303	-203	-92	40	163	286	427	545	681	814	935	1082	1208	1349	1459	Measured Value (mV)
0.55 Error (mV)	36	8	-10	-6	-11	-16	-4	-14	-7	-2	-9	9	7	20	1	Error (mV)
0.55 Limited If Output (dBm)	-16.92	-16.62	-16.31	-16.19	-16.10	-16.06	-16.05	-16.07	-16.08	-16.08	-16.09	-16.09	-16.09	-16.10	-16.13	Measured Value (mV)
0.80 Measured Value (mV)	-340	-232	-115	13	134	247	380	493	620	745	861	998	1118	1251	1355	Measured Value (mV)
0.80 Error (mV)	15	0	-5	1	-1	-10	1	-9	-4	-1	-8	6	4	14	-4	Error (mV)
0.80 Limited If Output (dBm)	-17.16	-16.65	-16.29	-16.17	-16.12	-16.12	-16.13	-16.14	-16.14	-16.15	-16.15	-16.16	-16.17	-16.21	-16.27	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.99 dBm
 LIMITED IF OUTPUT MIN -17.16 dBm
 LIMITED IF FLATNESS ± 0.58 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4312
 TESTED BY: H. HAHN
 DATE: 7/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) 1886
 SLOPE (mV/dB) 28.97
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1827
 SLOPE (mV/dB) 27.66
 LIMITED IF OUTPUT (dBm)

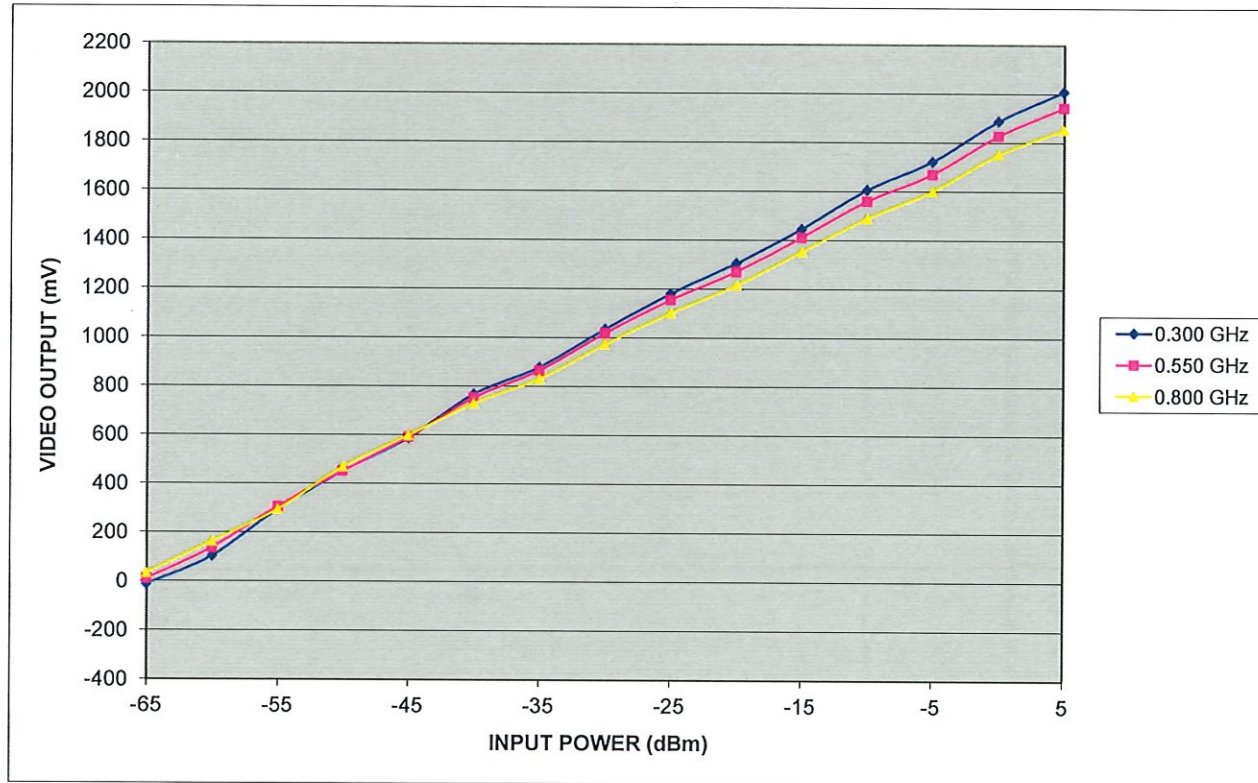
0.80 INTERCEPT (mV) 1743
 SLOPE (mV/dB) 26
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.54
 LINEARITY(-65 TO +5dBm) ± 1.54
 FREQUENCY FLATNESS ± 3.12

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-12	103	294	450	586	767	878	1035	1181	1305	1446	1605	1721	1888	2008	Measured Value (mV)
0.30 Error (mV)	-15	-45	1	13	4	40	6	18	19	-2	-6	9	-20	2	-23	Error (mV)
0.30 Limited If Output (dBm)	-15.45	-15.45	-15.61	-15.73	-15.76	-15.85	-15.80	-15.81	-15.81	-15.82	-15.83	-15.83	-15.83	-15.84	-15.84	Measured Value (mV)
0.55 Measured Value (mV)	9	136	305	451	590	753	864	1019	1155	1271	1412	1559	1670	1827	1942	Measured Value (mV)
0.55 Error (mV)	-20	-31	-1	7	7	32	5	21	19	-3	0	8	-19	0	-24	Error (mV)
0.55 Limited If Output (dBm)	-15.43	-15.48	-15.66	-15.65	-15.75	-15.69	-15.69	-15.71	-15.75	-15.78	-15.79	-15.78	-15.78	-15.79	-15.80	Measured Value (mV)
0.80 Measured Value (mV)	32	161	293	468	597	729	830	973	1101	1214	1352	1489	1599	1751	1852	Measured Value (mV)
0.80 Error (mV)	-20	-22	-20	25	24	26	-3	10	9	-8	0	6	-13	8	-21	Error (mV)
0.80 Limited If Output (dBm)	-15.44	-15.47	-15.58	-15.77	-15.77	-15.80	-15.75	-15.71	-15.73	-15.73	-15.72	-15.71	-15.72	-15.75	-15.83	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.43 dBm
 LIMITED IF OUTPUT MIN -15.85 dBm
 LIMITED IF FLATNESS ± 0.21 dBm