

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4309  
 TESTED BY: H. HAHN  
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
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 ISO 9001:2000 CERTIFIED

Frequency

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

0.30 INTERCEPT (mV) 1575  
 SLOPE (mV/dB) 27.68  
 LIMITED IF OUTPUT (dBm)

-214	-92	49	199	320	468	608	734	889	1016	1152	1308	1437	1589	1702	Measured Value (mV)
10	-6	-3	8	-9	1	2	-10	6	-5	-8	10	0	15	-11	Error (mV)
-16.49	-16.16	-16.05	-16.98	-15.94	-15.90	-15.89	-15.88	-15.88	-15.88	-15.89	-15.89	-15.90	-15.90	-15.90	Measured Value (mV)

0.55 INTERCEPT (mV) 1506  
 SLOPE (mV/dB) 26.23  
 LIMITED IF OUTPUT (dBm)

-182	-72	60	197	315	458	588	709	856	976	1105	1255	1375	1521	1629	Measured Value (mV)
16	-5	-3	2	-10	1	-1	-11	6	-6	-8	11	0	15	-8	Error (mV)
-16.40	-16.17	-16.05	-16.96	-15.90	-15.89	-16.91	-16.93	-16.93	-16.94	-16.95	-16.94	-16.94	-16.95	-16.97	Measured Value (mV)

0.80 INTERCEPT (mV) 1408  
 SLOPE (mV/dB) 24.51  
 LIMITED IF OUTPUT (dBm)

-162	-56	62	183	288	420	543	658	796	910	1033	1174	1288	1427	1530	Measured Value (mV)
22	6	2	0	-17	-8	-7	-15	1	-8	-8	11	2	19	0	Error (mV)
-16.30	-16.10	-16.03	-16.99	-15.96	-15.94	-15.96	-15.98	-15.99	-16.00	-16.00	-16.00	-16.00	-16.01	-16.05	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.77  
 LINEARITY(-65 TO +5dBm) ± 0.92  
 FREQUENCY FLATNESS ± 3.44

TSS 25C  
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.44V

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

IF OUTPUT VSWR 2:1 MAX @ 25C  
 1.31:1

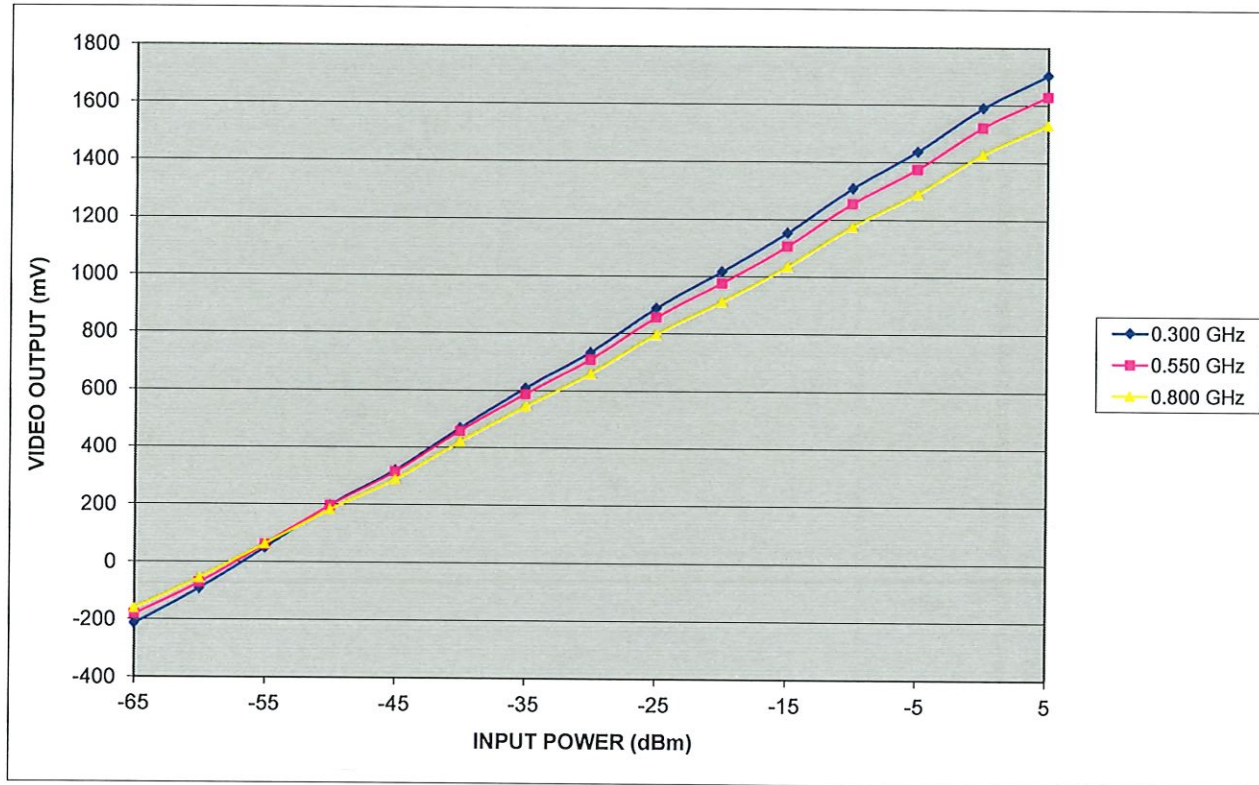
VIDEO RISE TIME 25 nS MAX @ 25C  
 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C  
 42 nS

PROPAGATION DELAY 40 nS MAX @ 25C  
 14 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 117 mA



LIMITED IF OUTPUT MAX -15.88 dBm  
 LIMITED IF OUTPUT MIN -16.49 dBm  
 LIMITED IF FLATNESS ± 0.31 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4309  
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 DATE: 6/AUG/2008



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Frequency

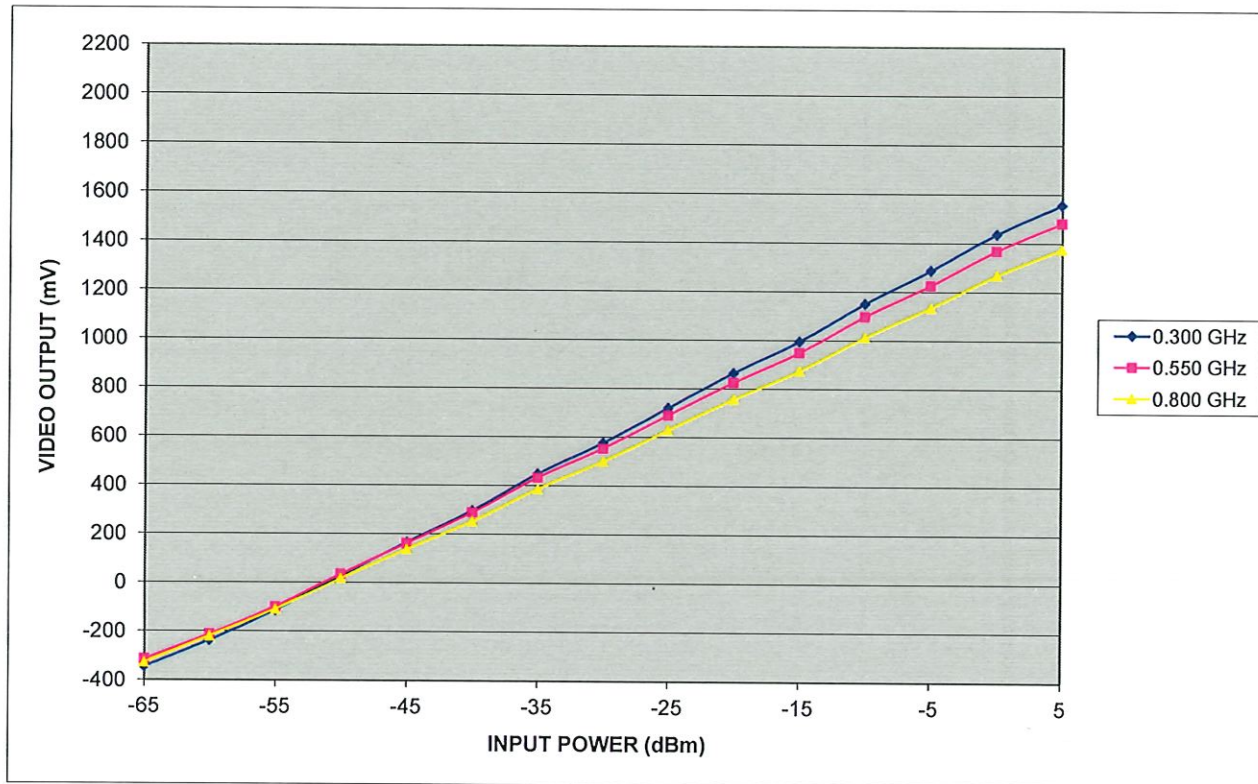
0.30 INTERCEPT (mV)    1418  
 SLOPE (mV/dB)    27.66  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1350  
 SLOPE (mV/dB)    26.16  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1251  
 SLOPE (mV/dB)    24.65  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.68  
 LINEARITY(-65 TO +5dBm)    ± 1.37  
 FREQUENCY FLATNESS    ± 3.61

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-345	-237	-114	29	166	296	448	576	720	864	994	1150	1286	1437	1555	Measured Value (mV)
0.30 Error (mV)	35	4	-11	-6	-8	-16	-2	-12	-6	-1	-9	8	7	19	-1	Error (mV)
0.30 Limited IF Output (dBm)	-16.85	-16.26	-16.01	-15.89	-15.81	-15.76	-16.73	-15.72	-15.71	-15.71	-16.72	-16.72	-16.72	-16.72	-16.71	Measured Value (mV)
0.55 Measured Value (mV)	-315	-213	-100	35	162	288	432	552	690	825	948	1097	1225	1368	1482	Measured Value (mV)
0.55 Error (mV)	36	7	-11	-7	-10	-16	-2	-13	-6	-2	-9	9	6	18	1	Error (mV)
0.55 Limited IF Output (dBm)	-16.66	-16.24	-16.02	-15.89	-15.81	-15.77	-15.76	-15.77	-15.78	-15.79	-16.80	-16.80	-16.80	-16.81	-16.83	Measured Value (mV)
0.80 Measured Value (mV)	-329	-221	-110	16	137	251	386	499	628	755	872	1011	1133	1267	1375	Measured Value (mV)
0.80 Error (mV)	22	7	-5	-2	-5	-14	-3	-12	-7	-3	-9	7	5	16	1	Error (mV)
0.80 Limited IF Output (dBm)	-16.73	-16.22	-16.00	-15.89	-15.85	-16.85	-16.86	-16.86	-16.87	-16.87	-16.87	-16.88	-16.88	-16.90	-16.94	Measured Value (mV)



LIMITED IF OUTPUT MAX    -16.71 dBm  
 LIMITED IF OUTPUT MIN    -16.85 dBm  
 LIMITED IF FLATNESS    ± 0.57 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4309  
 TESTED BY: H. HAHN  
 DATE: 4/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1399  
 SLOPE (mV/dB)    27.76  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1331  
 SLOPE (mV/dB)    26.23  
 LIMITED IF OUTPUT (dBm)

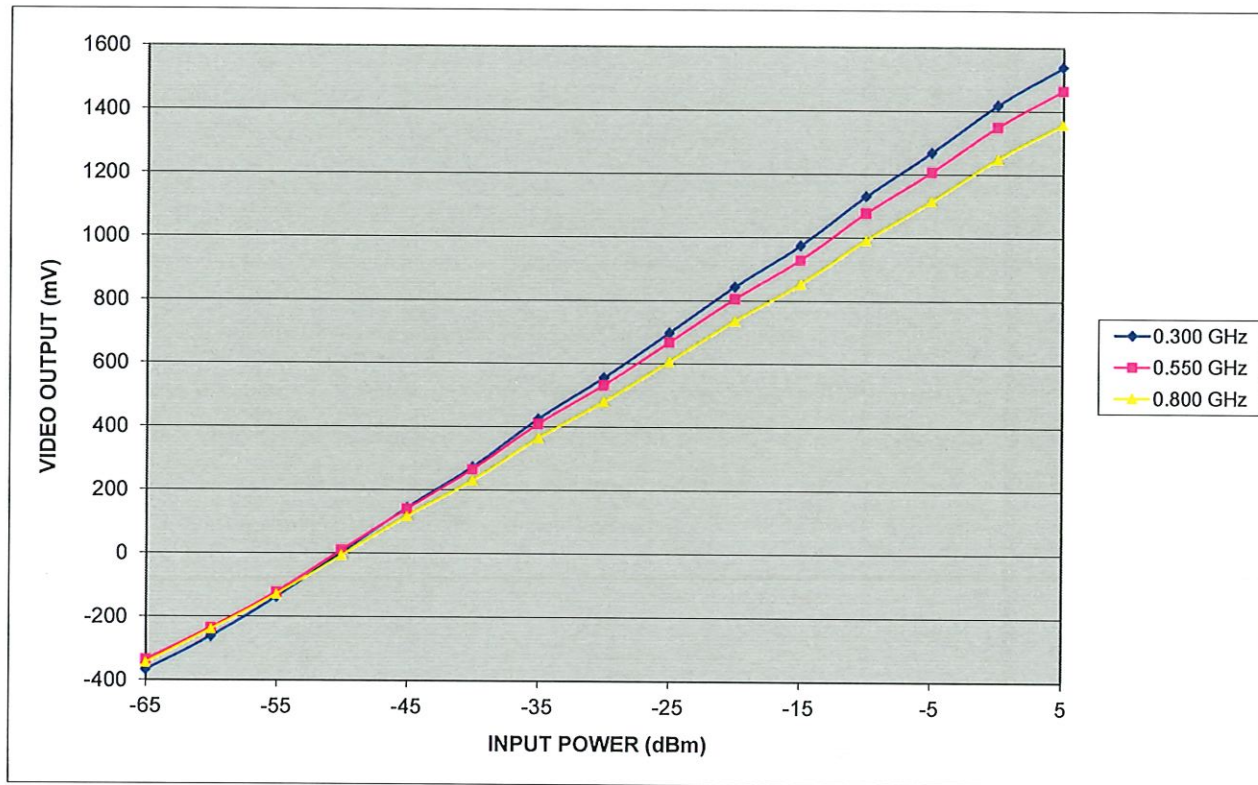
0.80 INTERCEPT (mV)    1230  
 SLOPE (mV/dB)    24.65  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.69  
 LINEARITY(-65 TO +5dBm)    ± 1.45  
 FREQUENCY FLATNESS    ± 3.64

TSS    95C  
 -65dBm MAX    -69 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX    2.35V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-367	-262	-138	3	144	273	425	555	698	844	974	1130	1268	1418	1538	Measured Value (mV)
0.30 Error (mV)	38	4	-11	-9	-7	-16	-3	-11	-8	-1	-9	8	7	19	0	Error (mV)
0.30 Limited IF Output (dBm)	-17.05	-16.38	-16.09	-16.95	-15.87	-16.81	-16.78	-16.77	-16.76	-16.76	-16.77	-16.77	-16.77	-16.77	-16.77	Limited IF Output (dBm)
0.55 Measured Value (mV)	-336	-235	-123	10	141	265	410	532	668	805	928	1077	1207	1349	1464	Measured Value (mV)
0.55 Error (mV)	38	8	-12	-9	-10	-17	-3	-12	-7	-1	-9	8	7	18	2	Error (mV)
0.55 Limited IF Output (dBm)	-16.81	-16.34	-16.09	-15.95	-15.86	-15.82	-16.82	-16.82	-16.83	-15.84	-15.84	-16.84	-15.85	-15.86	-15.88	Limited IF Output (dBm)
0.80 Measured Value (mV)	-346	-240	-130	-7	116	229	364	479	605	735	852	991	1114	1247	1356	Measured Value (mV)
0.80 Error (mV)	26	9	-5	-5	-5	-15	-4	-12	-8	-3	-9	7	6	17	3	Error (mV)
0.80 Limited IF Output (dBm)	-16.85	-16.30	-16.07	-15.95	-15.90	-16.90	-16.90	-16.91	-16.92	-16.92	-16.92	-16.92	-16.93	-16.94	-16.98	Limited IF Output (dBm)



LIMITED IF OUTPUT MAX    -16.76 dBm  
 LIMITED IF OUTPUT MIN    -17.05 dBm  
 LIMITED IF FLATNESS    ± 0.64 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4309  
 TESTED BY: H. HAHN  
 DATE: 6/AUG/2008



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0.30 INTERCEPT (mV)    1842  
 SLOPE (mV/dB)    28.68  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1773  
 SLOPE (mV/dB)    27.25  
 LIMITED IF OUTPUT (dBm)

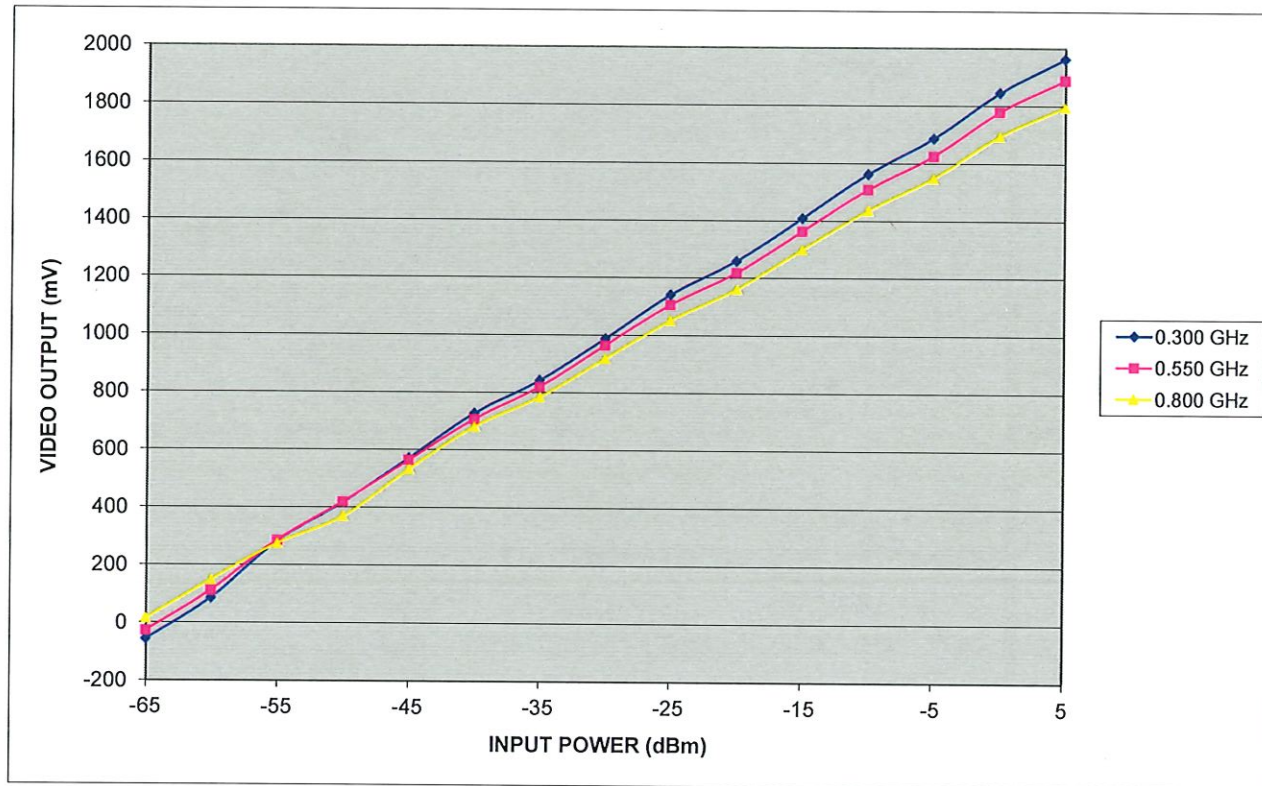
0.80 INTERCEPT (mV)    1682  
 SLOPE (mV/dB)    25.62  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 1.24  
 LINEARITY(-65 TO +5dBm)    ± 1.24  
 FREQUENCY FLATNESS    ± 3.35

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)	-57	86	282	417	571	728	842	988	1141	1259	1408	1562	1686	1845	1962	Measured Value (mV)
0.30 Error (mV)	-34	-35	18	10	20	33	4	7	16	-10	-4	7	-13	3	-23	Error (mV)
0.30 Limited If Output (dBm)	-15.72	-15.68	-15.83	-15.87	-15.83	-15.84	-15.86	-15.84	-15.84	-15.86	-15.88	-15.88	-15.89	-15.89	-15.89	Limited If Output (dBm)
0.55 Measured Value (mV)	-27	112	285	419	564	707	819	964	1106	1217	1363	1508	1624	1778	1887	Measured Value (mV)
0.55 Error (mV)	-29	-26	11	9	18	24	0	9	15	-10	-1	8	-13	5	-21	Error (mV)
0.55 Limited If Output (dBm)	-15.67	-15.66	-15.68	-15.71	-15.81	-15.80	-15.75	-15.75	-15.78	-15.81	-15.81	-15.80	-15.80	-15.81	-15.82	Limited If Output (dBm)
0.80 Measured Value (mV)	14	148	274	369	532	681	783	917	1050	1159	1297	1434	1547	1693	1794	Measured Value (mV)
0.80 Error (mV)	-2	4	2	-32	4	24	-2	4	10	-10	0	9	-7	11	-15	Error (mV)
0.80 Limited If Output (dBm)	-15.64	-15.62	-15.66	-15.66	-15.69	-15.79	-15.77	-15.75	-15.77	-15.79	-15.78	-15.77	-15.77	-15.79	-15.85	Limited If Output (dBm)



LIMITED IF OUTPUT MAX    -15.62 dBm  
 LIMITED IF OUTPUT MIN    -15.89 dBm  
 LIMITED IF FLATNESS    ± 0.14 dBm