

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4364
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1696
 SLOPE (mV/dB) 28.94
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1632
 SLOPE (mV/dB) 27.45
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1532
 SLOPE (mV/dB) 25.69
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.02
 LINEARITY(-65 TO +5dBm) ± 1.04
 FREQUENCY FLATNESS ± 3.36

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-182	-44	103	259	381	544	683	820	976	1116	1252	1418	1546	1711	1830	Measured Value (mV)
0.30 Error (mV)	4	-3	-1	11	-13	6	0	-8	4	-1	-10	11	-5	16	-10	Error (mV)
0.30 Measured Value (mV)	-16.07	-16.79	-16.71	-16.65	-16.61	-16.57	-16.55	-16.54	-16.54	-16.54	-16.55	-16.55	-16.56	-16.56	-16.57	Measured Value (mV)
0.55 Measured Value (mV)	-140	-18	121	261	381	537	668	799	951	1080	1212	1369	1491	1646	1762	Measured Value (mV)
0.55 Error (mV)	13	-2	-1	2	-15	4	-2	-9	5	-3	-8	12	-3	14	-7	Error (mV)
0.55 Measured Value (mV)	-15.97	-15.79	-15.69	-15.60	-15.54	-15.54	-15.57	-15.57	-15.57	-15.58	-15.59	-15.59	-15.59	-15.60	-15.62	Measured Value (mV)
0.80 Measured Value (mV)	-111	1	123	241	350	498	624	747	891	1012	1139	1286	1404	1553	1662	Measured Value (mV)
0.80 Error (mV)	27	11	4	-6	-26	-7	-9	-15	1	-6	-7	11	0	21	2	Error (mV)
0.80 Measured Value (mV)	-15.85	-15.70	-16.64	-16.60	-16.54	-16.50	-16.55	-16.57	-16.58	-16.59	-16.59	-16.59	-16.59	-16.61	-16.66	Measured Value (mV)

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.35

INPUT VSWR 2:1 MAX @ 25C 1.19:1

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

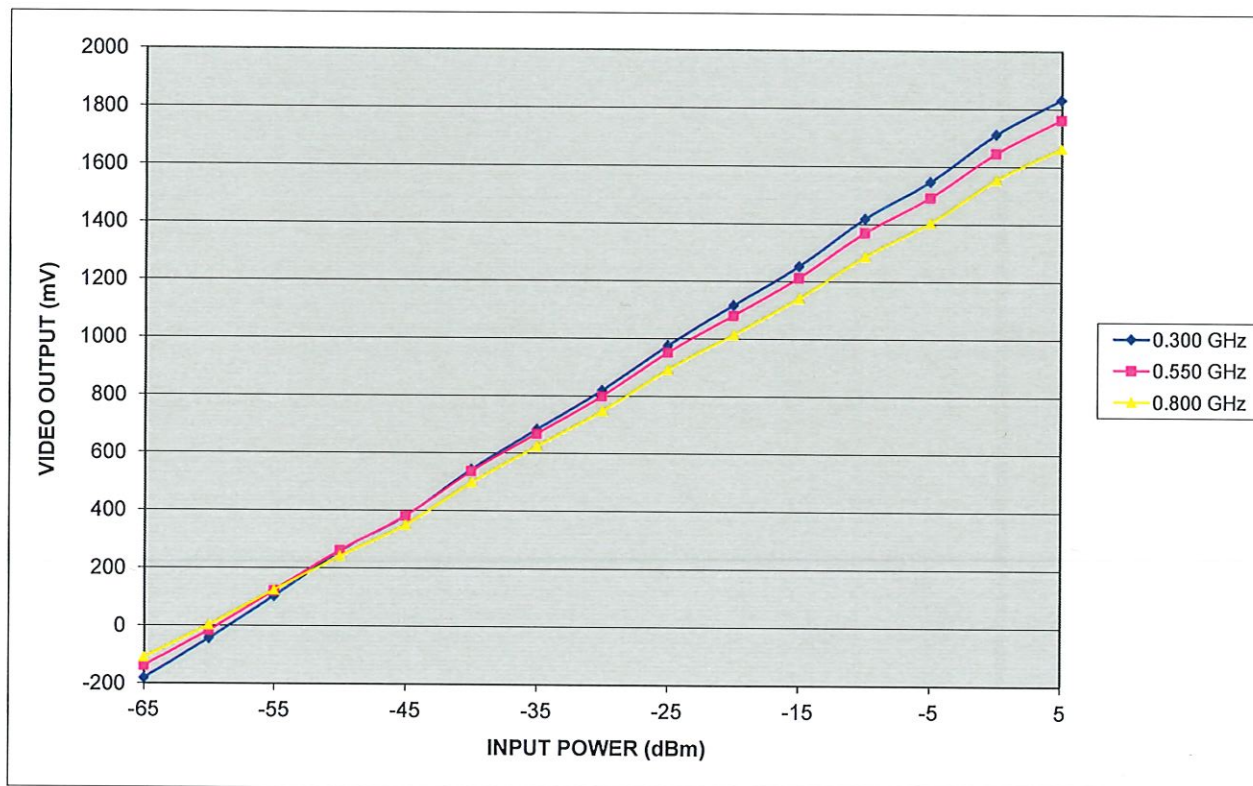
VIDEO RISE TIME 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 14 mA

-5.2 V @ 200 mA MAX 125 mA



LIMITED IF OUTPUT MAX -15.50 dBm
 LIMITED IF OUTPUT MIN -16.07 dBm
 LIMITED IF FLATNESS ± 0.28 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4364
 TESTED BY: B. Baker
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1541
 SLOPE (mV/dB) 29
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1476
 SLOPE (mV/dB) 27.44
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1371
 SLOPE (mV/dB) 25.58
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.19
 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)	-315	-194	-66	90	227	371	525	663	809	965	1097	1260	1398	1559	1684	
0.30 Error (mV)	29	4	-12	-1	-10	-11	-2	-9	-7	4	-10	9	1	18	-2	
0.30 Measured Value (mV)	-16.47	-15.88	-15.66	-15.53	-15.46	-15.41	-15.37	-15.36	-15.36	-15.36	-15.36	-15.37	-15.37	-15.37	-15.37	
0.55 Measured Value (mV)	-275	-164	-45	100	228	366	514	642	785	929	1055	1211	1341	1493	1614	
0.55 Error (mV)	33	6	-11	-4	-13	-12	-2	-11	-5	2	-9	9	2	16	1	
0.55 Measured Value (mV)	-16.22	-15.83	-15.62	-15.50	-15.41	-15.37	-15.37	-15.38	-15.39	-15.40	-15.40	-15.40	-15.41	-15.42	-15.44	
0.80 Measured Value (mV)	-262	-150	-41	89	206	330	468	588	722	857	978	1123	1247	1390	1505	
0.80 Error (mV)	30	14	-5	-3	-14	-17	-7	-16	-9	-2	-9	8	4	20	6	
0.80 Measured Value (mV)	-16.07	-15.69	-15.53	-15.45	-15.41	-15.40	-15.40	-15.41	-15.42	-15.42	-15.42	-15.43	-15.44	-15.45	-15.49	

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.25

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

IF OUTPUT VSWR 2:1 MAX @ 25C 1.25:1

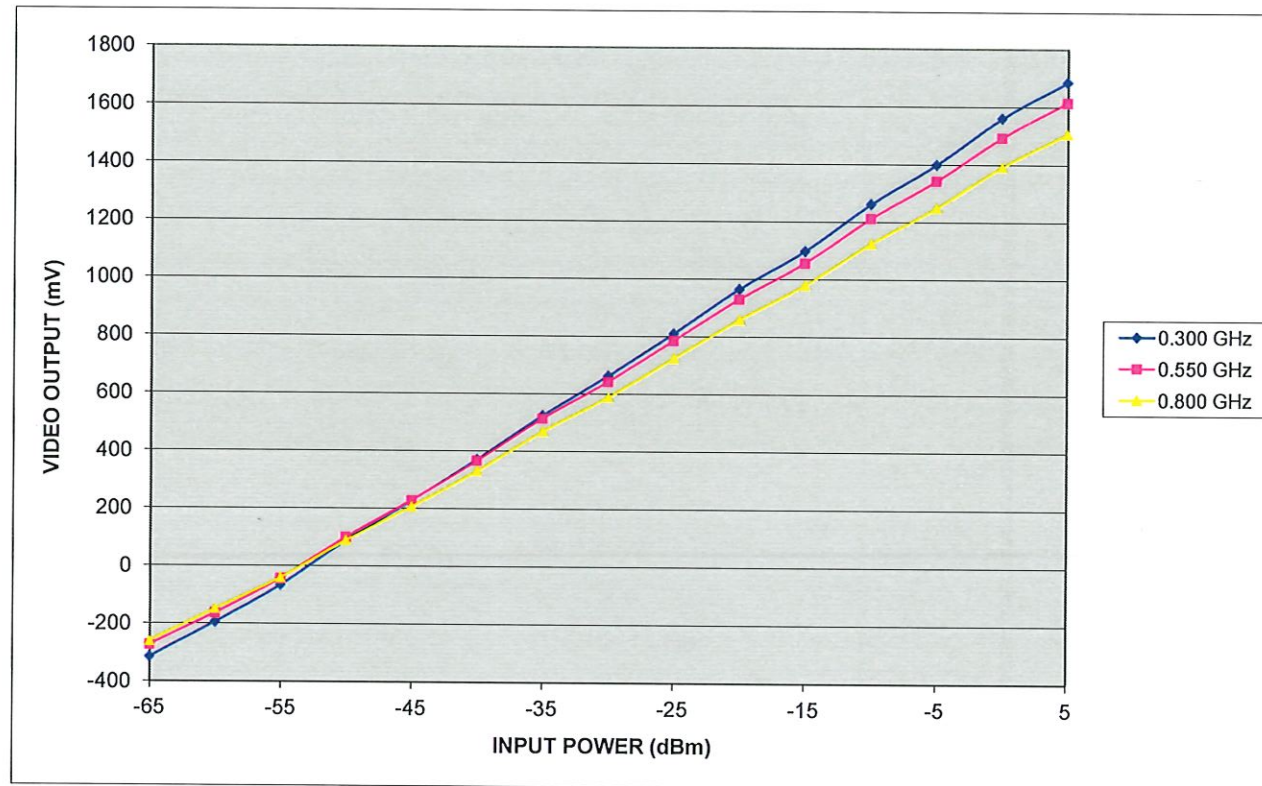
VIDEO RISE TIME 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 13 mA

-5.2 V @ 200 mA MAX 127 mA



LIMITED IF OUTPUT MAX -15.36 dBm
 LIMITED IF OUTPUT MIN -16.47 dBm
 LIMITED IF FLATNESS ± 0.55 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4364
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Frequency

0.30 INTERCEPT (mV) 1520
 SLOPE (mV/dB) 29.01
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1453
 SLOPE (mV/dB) 27.46
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1347
 SLOPE (mV/dB) 25.63
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.72
 LINEARITY(-65 TO +5dBm) ± 1.31
 FREQUENCY FLATNESS ± 3.63

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-333	-216	-88	64	205	346	501	640	785	943	1074	1238	1377	1537	1665	
0.30 Error (mV)	33	5	-12	-5	-10	-13	-3	-9	-9	4	-10	8	2	18	1	
0.30 Measured Value (mV)	-16.55	-15.92	-15.67	-15.64	-15.46	-15.40	-15.37	-15.35	-15.35	-15.35	-15.35	-15.36	-15.36	-15.36	-15.36	
0.55 Measured Value (mV)	-295	-187	-69	74	205	340	489	619	759	907	1032	1187	1319	1469	1594	
0.55 Error (mV)	36	8	-12	-7	-13	-15	-3	-11	-8	3	-9	8	3	16	4	
0.55 Measured Value (mV)	-16.28	-15.85	-15.62	-15.49	-15.40	-15.36	-15.36	-15.36	-15.37	-15.38	-15.38	-15.38	-15.39	-15.40	-15.42	
0.80 Measured Value (mV)	-288	-176	-67	61	183	304	443	564	696	834	953	1097	1224	1366	1484	
0.80 Error (mV)	30	15	-5	-5	-11	-18	-7	-15	-11	-1	-9	6	5	18	8	
0.80 Measured Value (mV)	-16.16	-15.71	-15.53	-15.43	-15.39	-15.38	-15.38	-15.39	-15.40	-15.40	-15.40	-15.40	-15.41	-15.43	-15.46	

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.23

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

IF OUTPUT VSWR 2:1 MAX @ 25C 1.25:1

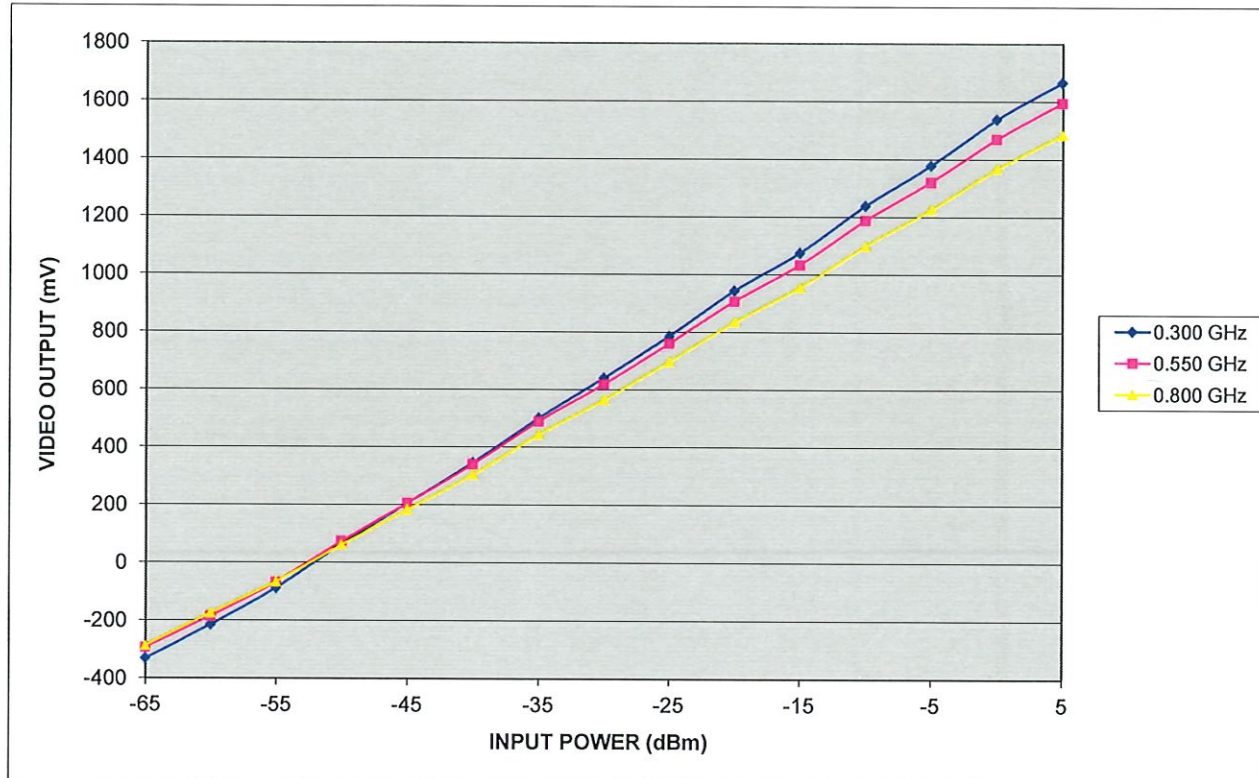
VIDEO RISE TIME 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 13 mA

-5.2 V @ 200 mA MAX 128 mA



LIMITED IF OUTPUT MAX -15.35 dBm
 LIMITED IF OUTPUT MIN -16.55 dBm
 LIMITED IF FLATNESS ± 0.60 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
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 TESTED BY: B. Baker
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1986
 SLOPE (mV/dB) 29.87
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1923
 SLOPE (mV/dB) 28.62
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1835
 SLOPE (mV/dB) 27.26
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.28
 LINEARITY(-65 TO +5dBm) ± 1.28
 FREQUENCY FLATNESS ± 3.37

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.57

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

IF OUTPUT VSWR 2:1 MAX @ 25C 1.25:1

VIDEO RISE TIME 25 nS MAX @ 25C 16 nS

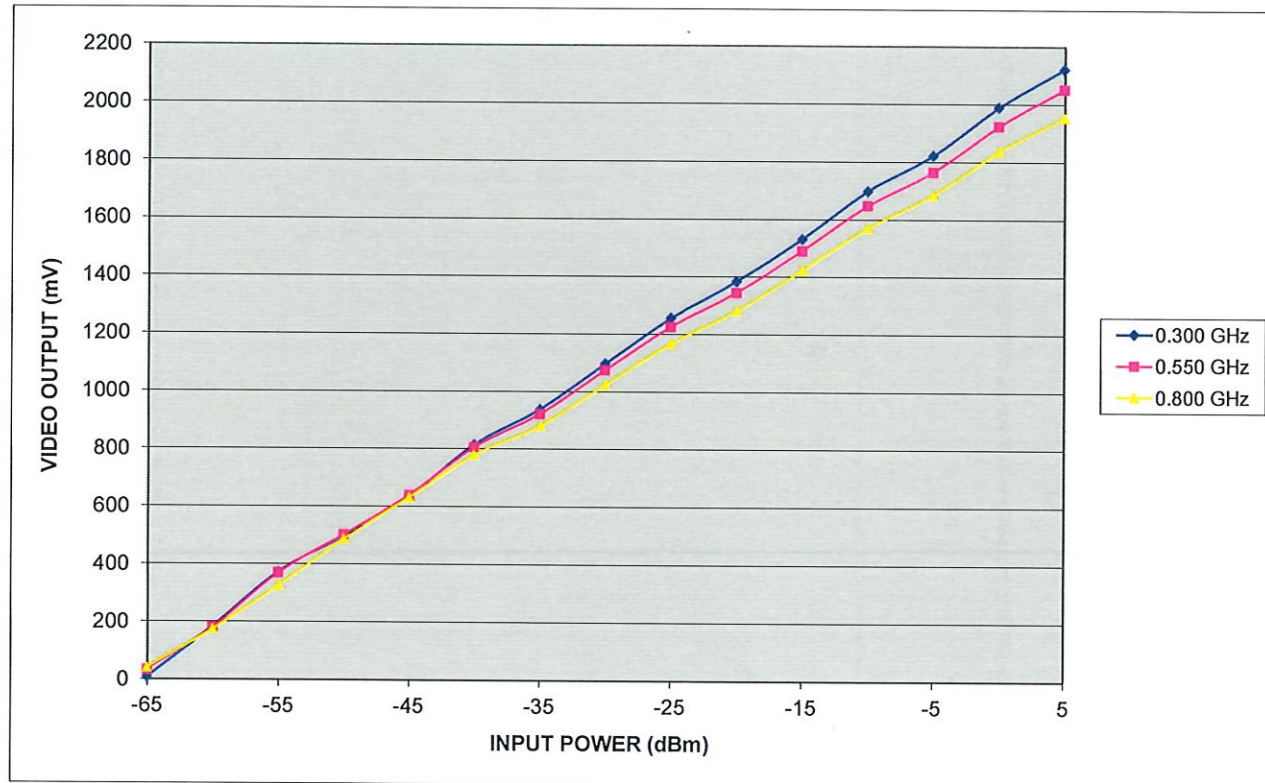
VIDEO FALL TIME 80 nS MAX @ 25C 38 nS

PROPERGATION DELAY 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 15 mA

-5.2 V @ 200 mA MAX 124 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)	8	183	372	497	635	815	938	1097	1266	1383	1531	1698	1821	1988	2122	Measured Value (mV)
0.30 Error (mV)	-36	-10	29	5	-7	24	-2	7	17	-5	-7	11	-15	3	-13	Error (mV)
0.30 Limited If Output (dBm)	-15.37	-15.40	-15.53	-15.59	-15.65	-15.74	-15.72	-15.71	-15.71	-15.72	-15.73	-15.73	-15.74	-15.75	-15.75	Measured Value (mV)
0.55 Measured Value (mV)	33	180	370	501	639	807	922	1076	1225	1345	1490	1647	1764	1923	2051	Measured Value (mV)
0.55 Error (mV)	-30	-26	20	9	4	28	0	10	17	-6	-4	10	-17	0	-16	Error (mV)
0.55 Limited If Output (dBm)	-15.30	-15.32	-15.36	-15.45	-15.52	-15.54	-15.57	-15.56	-15.57	-15.59	-15.59	-15.59	-15.59	-15.59	-15.61	Measured Value (mV)
0.80 Measured Value (mV)	40	174	325	486	631	779	881	1024	1166	1281	1423	1569	1684	1836	1953	Measured Value (mV)
0.80 Error (mV)	-23	-25	-10	14	23	35	0	7	13	-8	-3	7	-14	1	-17	Error (mV)
0.80 Limited If Output (dBm)	-15.27	-15.29	-15.31	-15.45	-15.49	-15.58	-15.56	-15.53	-15.53	-15.53	-15.52	-15.51	-15.53	-15.56	-15.60	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.27 dBm
 LIMITED IF OUTPUT MIN -15.75 dBm
 LIMITED IF FLATNESS ± 0.24 dBm