

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4316  
 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) 1603  
 SLOPE (mV/dB) 27.62  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1541  
 SLOPE (mV/dB) 26.29  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1451  
 SLOPE (mV/dB) 25.04  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.69  
 LINEARITY(-65 TO +5dBm) ± 0.69  
 FREQUENCY FLATNESS ± 3.28

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.46V

INPUT VSWR  
 2:1 MAX @ 25C 1.15:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.26:1

VIDEO RISE TIME  
 25 nS MAX @ 25C 19 nS

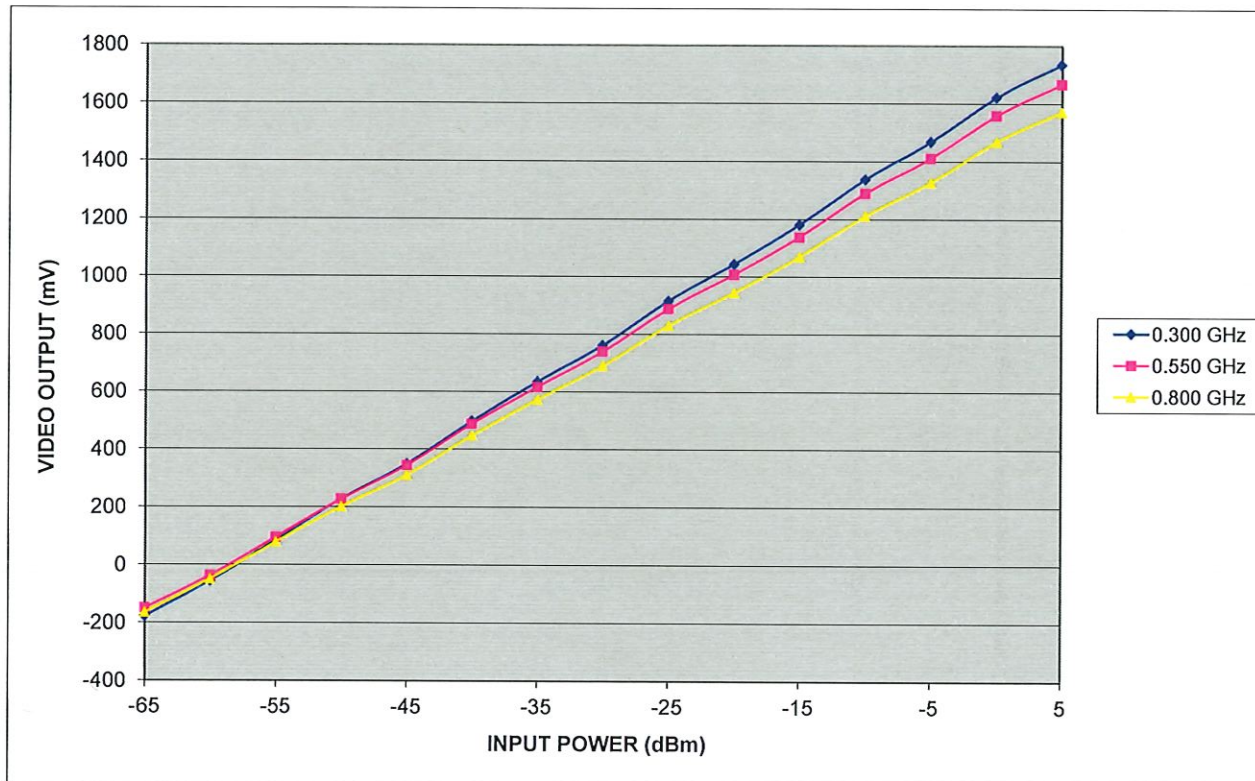
VIDEO FALL TIME  
 80 nS MAX @ 25C 40 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 15 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 116 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)	-178	-55	85	228	349	497	634	761	916	1044	1180	1337	1467	1622	1735	Measured Value (mV)
0.30 Error (mV)	14	-2	1	5	-12	-1	-2	-14	3	-7	-9	10	2	18	-7	Error (mV)
0.30 Measured Value (mV)	-16.42	-16.20	-16.13	-16.08	-16.04	-15.99	-15.98	-15.97	-15.97	-15.97	-15.98	-15.98	-15.98	-15.97	-15.96	Measured Value (mV)
0.55 Measured Value (mV)	-150	-37	96	227	344	488	617	739	888	1007	1138	1289	1410	1559	1667	Measured Value (mV)
0.55 Error (mV)	18	-1	1	1	-14	-1	-4	-13	4	-8	-9	11	1	18	-5	Error (mV)
0.55 Measured Value (mV)	-16.36	-16.21	-16.12	-16.04	-15.97	-15.97	-16.01	-16.02	-16.02	-16.04	-16.04	-16.03	-16.03	-16.04	-16.06	Measured Value (mV)
0.80 Measured Value (mV)	-166	-50	78	201	310	447	572	689	829	944	1068	1210	1326	1468	1570	Measured Value (mV)
0.80 Error (mV)	11	2	5	2	-15	-2	-3	-11	4	-7	-7	9	0	17	-6	Error (mV)
0.80 Measured Value (mV)	-16.38	-16.18	-16.11	-16.09	-16.04	-15.99	-16.02	-16.05	-16.07	-16.08	-16.08	-16.08	-16.09	-16.11	-16.17	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.96 dBm  
 LIMITED IF OUTPUT MIN -16.42 dBm  
 LIMITED IF FLATNESS ± 0.23 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4316  
 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

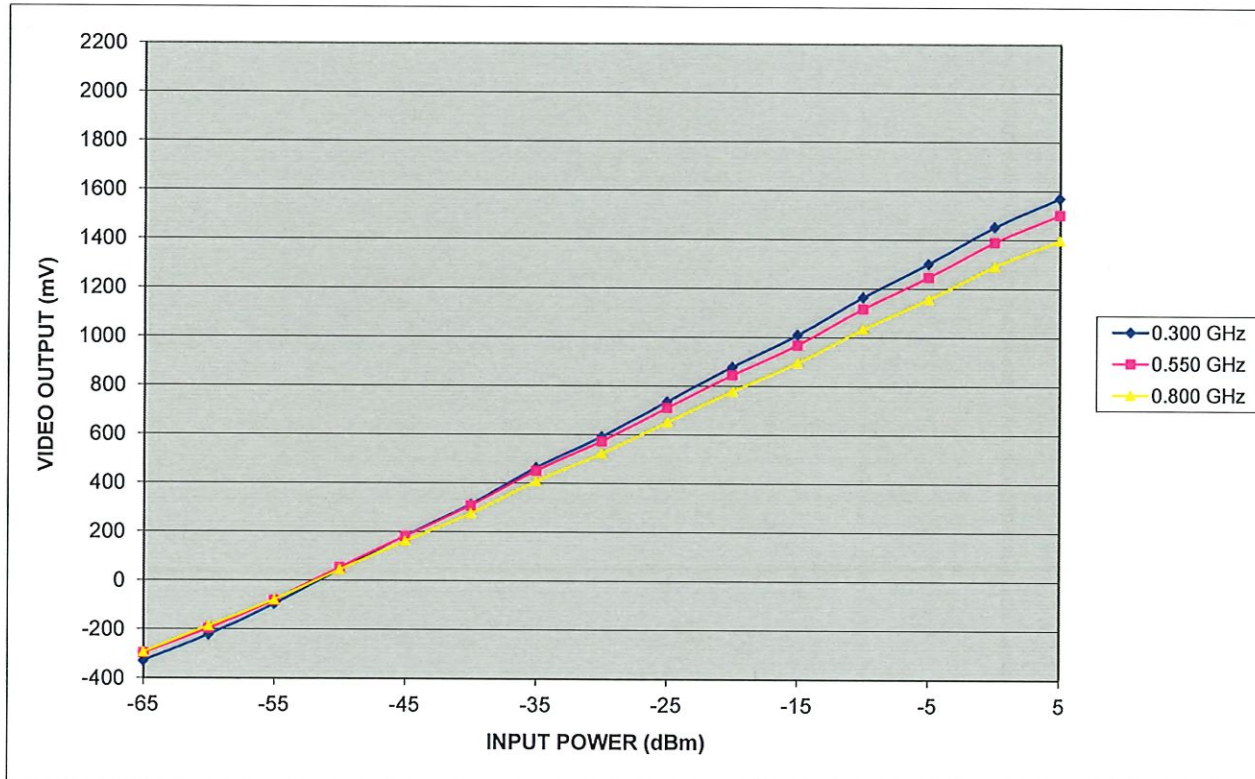
0.30 INTERCEPT (mV) 1433  
 SLOPE (mV/dB) 27.65  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1371  
 SLOPE (mV/dB) 26.23  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1272  
 SLOPE (mV/dB) 24.5  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.80  
 LINEARITY(-65 TO +5dBm) ± 1.38  
 FREQUENCY FLATNESS ± 3.44

	-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	-98	46	182	312	464	592	736	879	1009	1165	1302	1453	1570	Measured Value (mV)
0.30 Error (mV)	35	3	-10	-5	-7	-15	-2	-12	-6	-2	-9	8	7	19	-2	Error (mV)
0.30 Limited If Output (dBm)	-16.97	-16.37	-16.12	-16.00	-16.93	-15.88	-15.84	-15.83	-15.83	-15.83	-15.83	-15.83	-15.84	-16.84	-15.84	Measured Value (mV)
0.55 Measured Value (mV)	-297	-197	-83	54	181	308	451	572	710	845	969	1118	1246	1390	1502	Measured Value (mV)
0.55 Error (mV)	36	5	-12	-6	-10	-14	-2	-13	-5	-2	-9	9	6	19	-1	Error (mV)
0.55 Limited If Output (dBm)	-16.77	-16.35	-16.13	-16.00	-15.92	-15.87	-15.87	-15.88	-15.89	-15.90	-15.90	-15.90	-15.91	-15.92	-15.94	Measured Value (mV)
0.80 Measured Value (mV)	-294	-187	-80	44	161	275	408	522	651	777	895	1034	1156	1291	1398	Measured Value (mV)
0.80 Error (mV)	27	11	-4	-2	-8	-17	-6	-15	-8	-4	-10	8	7	19	3	Error (mV)
0.80 Limited If Output (dBm)	-16.69	-16.25	-16.07	-15.98	-15.94	-15.94	-15.94	-15.96	-15.96	-15.96	-15.97	-15.97	-15.98	-16.00	-16.03	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.83 dBm  
 LIMITED IF OUTPUT MIN -16.97 dBm  
 LIMITED IF FLATNESS ± 0.57 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4316  
 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)    1413  
 SLOPE (mV/dB)    27.67  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1351  
 SLOPE (mV/dB)    26.24  
 LIMITED IF OUTPUT (dBm)

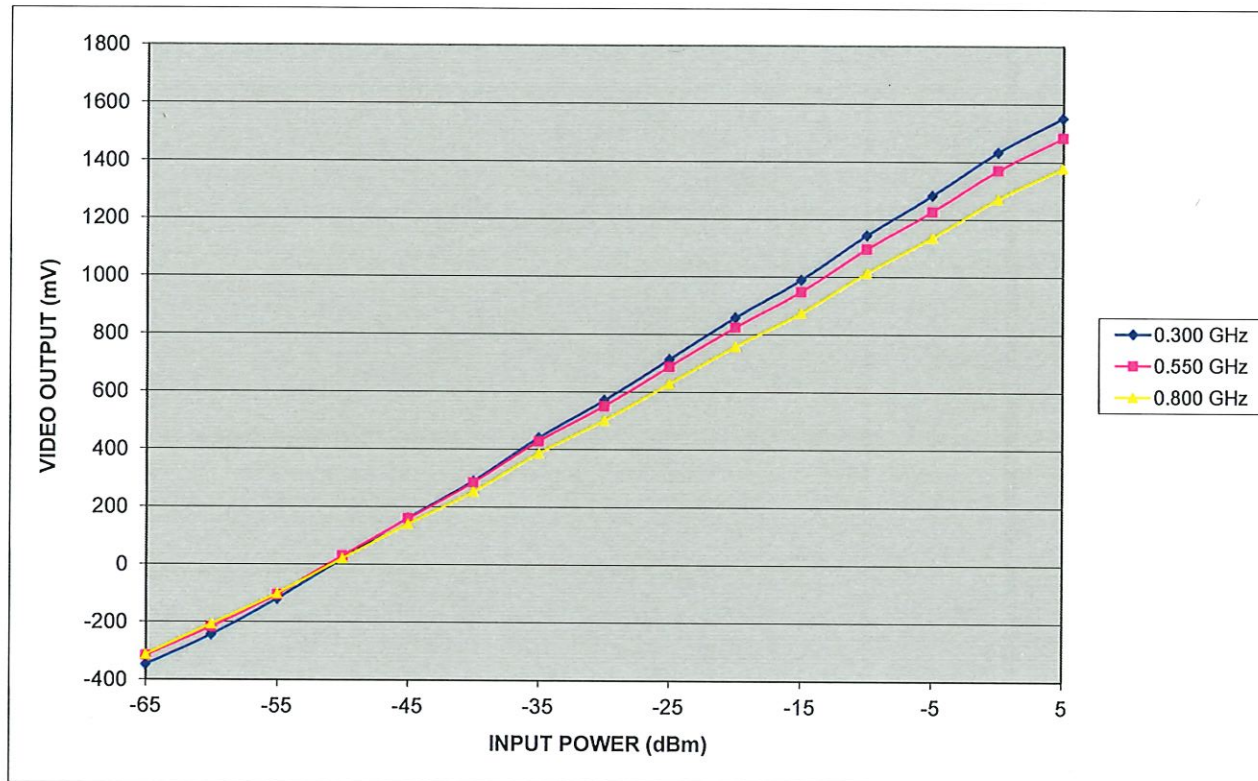
0.80 INTERCEPT (mV)    1251  
 SLOPE (mV/dB)    24.51  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.80  
 LINEARITY(-65 TO +5dBm)    ± 1.47  
 FREQUENCY FLATNESS    ± 3.48

TSS    95C  
 -65dBm MAX    -67 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX    2.34V

	-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	-119	22	161	290	441	571	713	858	989	1144	1282	1433	1551	Measured Value (mV)
0.30 Error (mV)	38	3	-10	-8	-7	-17	-4	-12	-8	-1	-9	7	7	20	0	Error (mV)
0.30 Limited If Output (dBm)	-17.20	-16.65	-16.27	-16.14	-16.05	-16.00	-15.97	-15.95	-15.95	-15.95	-15.95	-15.96	-15.96	-15.96	-15.96	Measured Value (mV)
0.55 Measured Value (mV)	-316	-217	-104	30	160	285	429	551	688	824	948	1097	1227	1370	1483	Measured Value (mV)
0.55 Error (mV)	39	6	-12	-9	-10	-16	-3	-12	-7	-2	-9	8	7	19	1	Error (mV)
0.55 Limited If Output (dBm)	-16.97	-16.62	-16.27	-16.13	-16.05	-16.00	-16.99	-16.00	-16.01	-16.02	-16.02	-16.02	-16.03	-16.04	-16.06	Measured Value (mV)
0.80 Measured Value (mV)	-314	-208	-102	21	140	253	386	501	628	756	873	1013	1136	1270	1377	Measured Value (mV)
0.80 Error (mV)	28	12	-4	-4	-7	-18	-7	-15	-9	-4	-10	7	8	20	4	Error (mV)
0.80 Limited If Output (dBm)	-16.89	-16.41	-16.21	-16.10	-16.06	-16.06	-16.07	-16.07	-16.08	-16.08	-16.08	-16.09	-16.09	-16.11	-16.14	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.95 dBm  
 LIMITED IF OUTPUT MIN    -17.20 dBm  
 LIMITED IF FLATNESS    ± 0.63 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4316  
 TESTED BY: H. HAHN  
 DATE: 9/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) 1914  
 SLOPE (mV/dB) 29.26  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1850  
 SLOPE (mV/dB) 28.02  
 LIMITED IF OUTPUT (dBm)

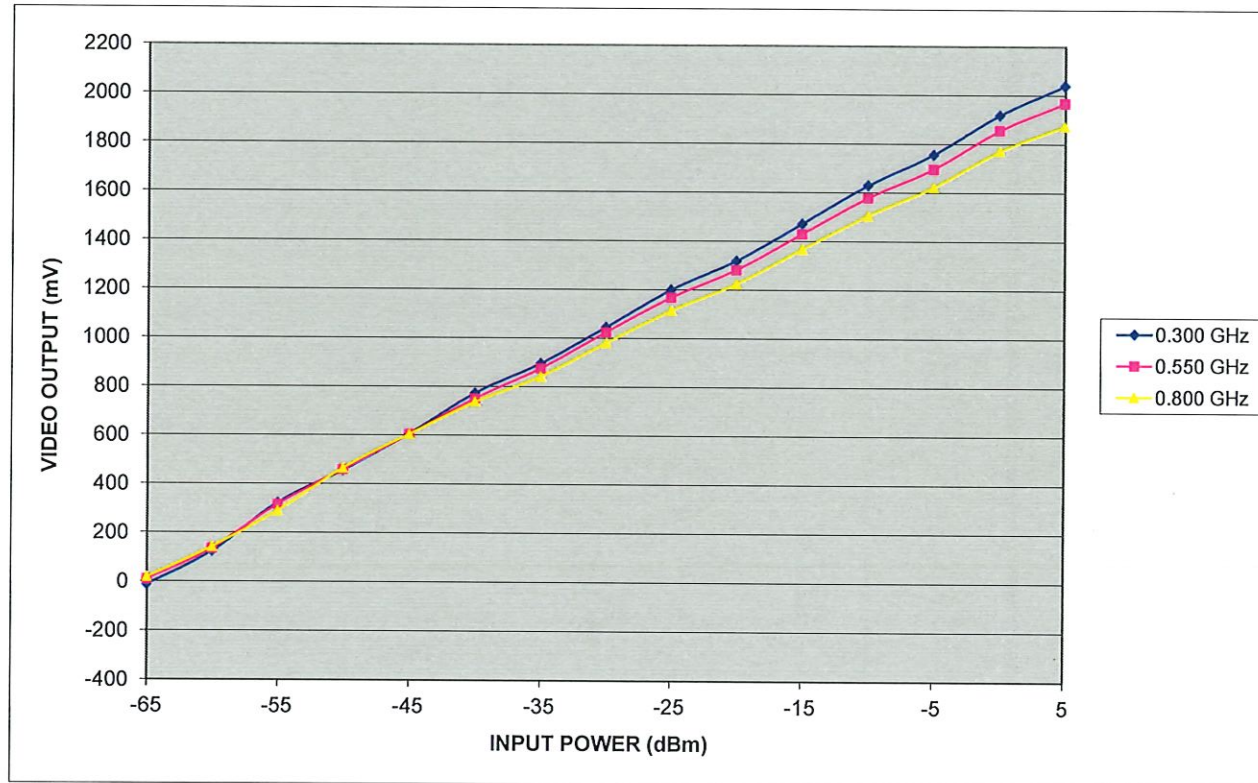
0.80 INTERCEPT (mV) 1764  
 SLOPE (mV/dB) 26.5  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.26  
 LINEARITY(-65 TO +5dBm) ± 1.26  
 FREQUENCY FLATNESS ± 3.32

TSS -54C  
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C  
 2.7V MAX 2.31V

	-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	123	322	457	605	773	896	1045	1200	1319	1472	1629	1755	1918	2038	
0.30 Error (mV)	-24	-35	18	6	8	30	6	9	17	-10	-3	8	-12	4	-22	
0.30 Limited If Output (dBm)	-15.80	-15.78	-15.90	-15.98	-16.04	-16.06	-16.10	-16.07	-16.07	-16.10	-16.11	-16.12	-16.12	-16.13	-16.12	
0.55 Measured Value (mV)	8	134	316	458	605	751	875	1024	1167	1281	1429	1577	1696	1854	1966	
0.55 Error (mV)	-20	-35	7	9	16	22	6	15	18	-9	0	7	-14	4	-24	
0.55 Limited If Output (dBm)	-15.76	-15.77	-15.80	-15.89	-16.00	-15.96	-15.96	-16.01	-16.04	-16.06	-16.06	-16.05	-16.04	-16.05	-16.06	
0.80 Measured Value (mV)	17	141	289	465	603	736	841	980	1114	1223	1366	1504	1621	1769	1872	
0.80 Error (mV)	-25	-33	-18	25	31	32	4	11	12	-12	-1	5	-11	4	-25	
0.80 Limited If Output (dBm)	-15.75	-15.76	-15.81	-16.01	-16.01	-16.03	-15.98	-15.96	-15.99	-16.01	-15.99	-15.99	-15.99	-16.03	-16.10	



LIMITED IF OUTPUT MAX -15.75 dBm  
 LIMITED IF OUTPUT MIN -16.13 dBm  
 LIMITED IF FLATNESS ± 0.19 dBm