

LOG TRANSFER WITH FREQUENCY @ +25 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL5442  
 TESTED BY: B. BAKER  
 DATE: 24/MARCH/2009



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV)    1489  
 SLOPE (mV/dB)    26.71  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1419  
 SLOPE (mV/dB)    25.35  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1322  
 SLOPE (mV/dB)    23.87  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.82  
 LINEARITY(-65 TO +5dBm)    ± 0.82  
 FREQUENCY FLATNESS    ± 3.46

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-229	-110	10	158	271	417	551	679	819	956	1080	1235	1354	1511	1609	
0.30 Error (mV)	19	4	-10	5	-16	-4	-3	-8	-2	2	-8	13	-1	22	-13	
0.30 Limited If Output (dBm)	-16.92	-16.54	-16.41	-16.32	-16.27	-16.22	-16.20	-16.19	-16.18	-16.18	-16.19	-16.19	-16.19	-16.19	-16.19	
0.55 Measured Value (mV)	-209	-100	15	154	263	401	529	650	784	913	1030	1177	1291	1436	1537	
0.55 Error (mV)	20	3	-9	3	-14	-3	-3	-8	-1	2	-8	12	-1	18	-8	
0.55 Limited If Output (dBm)	-16.86	-16.56	-16.42	-16.32	-16.26	-16.23	-16.24	-16.25	-16.26	-16.27	-16.28	-16.27	-16.27	-16.27	-16.29	
0.80 Measured Value (mV)	-216	-104	4	133	234	360	482	596	722	844	956	1093	1202	1339	1436	
0.80 Error (mV)	14	7	-5	5	-13	-6	-4	-10	-3	0	-8	10	-1	18	-5	
0.80 Limited If Output (dBm)	-16.84	-16.48	-16.35	-16.28	-16.26	-16.23	-16.23	-16.25	-16.27	-16.28	-16.28	-16.28	-16.28	-16.29	-16.33	

TSS    25C  
 -65dBm MAX    -67dBm

OUTPUT VOLTAGE    25C  
 2.7V MAX    2.63 V

INPUT VSWR    1.20:1  
 2:1 MAX @ 25C

IF OUTPUT VSWR    1.72:1  
 2:1 MAX @ 25C

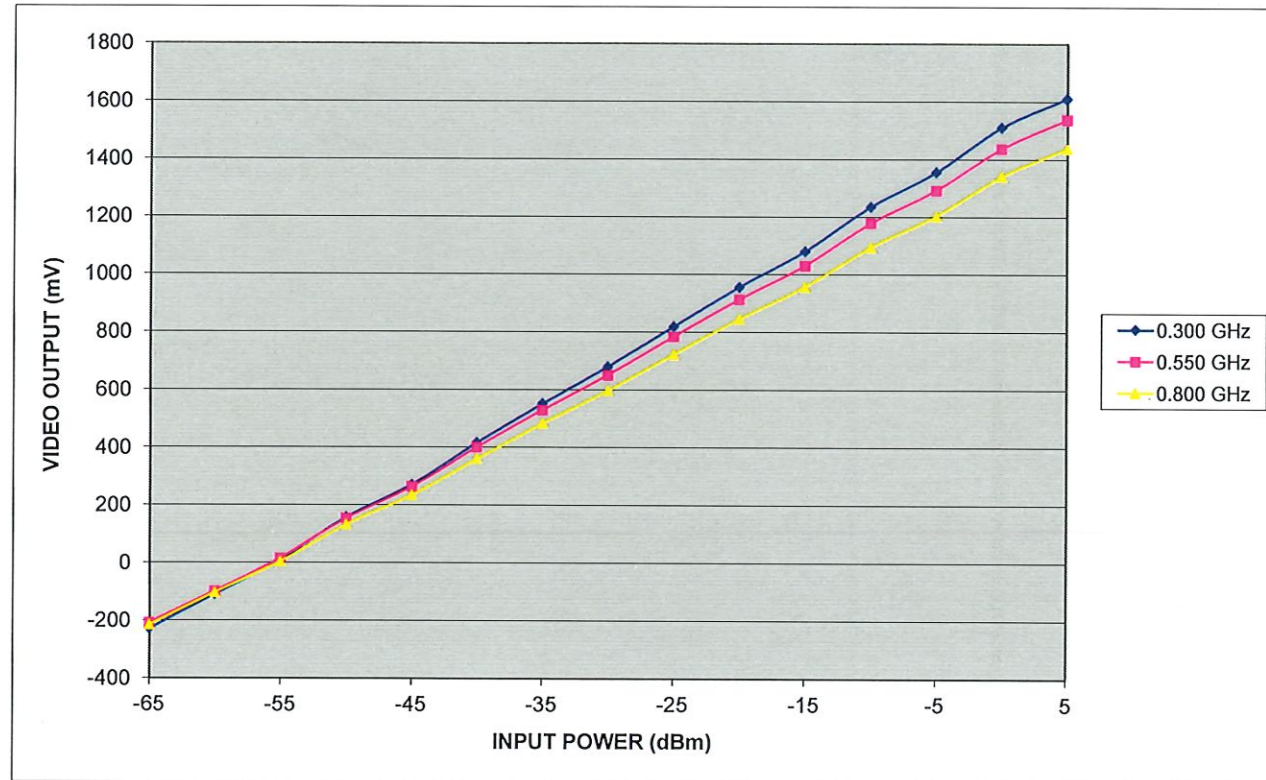
VIDEO RISE TIME    24 nS  
 25 nS MAX @ 25C

VIDEO FALL TIME    46 nS  
 80 nS MAX @ 25C

PROPAGATION DELAY    34 nS  
 40 nS MAX @ 25C

+5 V @ 70 mA MAX    15 mA

-5.2 V @ 200 mA MAX    115mA



LIMITED IF OUTPUT MAX    -16.18 dBm  
 LIMITED IF OUTPUT MIN    -16.92 dBm  
 LIMITED IF FLATNESS    ± 0.37 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C  
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	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
0.30 INTERCEPT (mV)	1384																Measured Value (mV)
SLOPE (mV/dB)	27.46																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.55 INTERCEPT (mV)	1305																Measured Value (mV)
SLOPE (mV/dB)	25.89																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.80 INTERCEPT (mV)	1200																Measured Value (mV)
SLOPE (mV/dB)	24.27																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
LINEARITY(-60 TO 0dBm)	± 0.82																Measured Value (mV)
LINEARITY(-65 TO +5dBm)	± 1.36																Error (mV)
FREQUENCY FLATNESS	± 3.89																Measured Value (mV)

TSS                    25C  
 -65dBm MAX        -67dBm

OUTPUT VOLTAGE    25C  
 2.7V MAX            2.63 V

INPUT VSWR  
 2:1 MAX @ 25C            1.20:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C            1.72:1

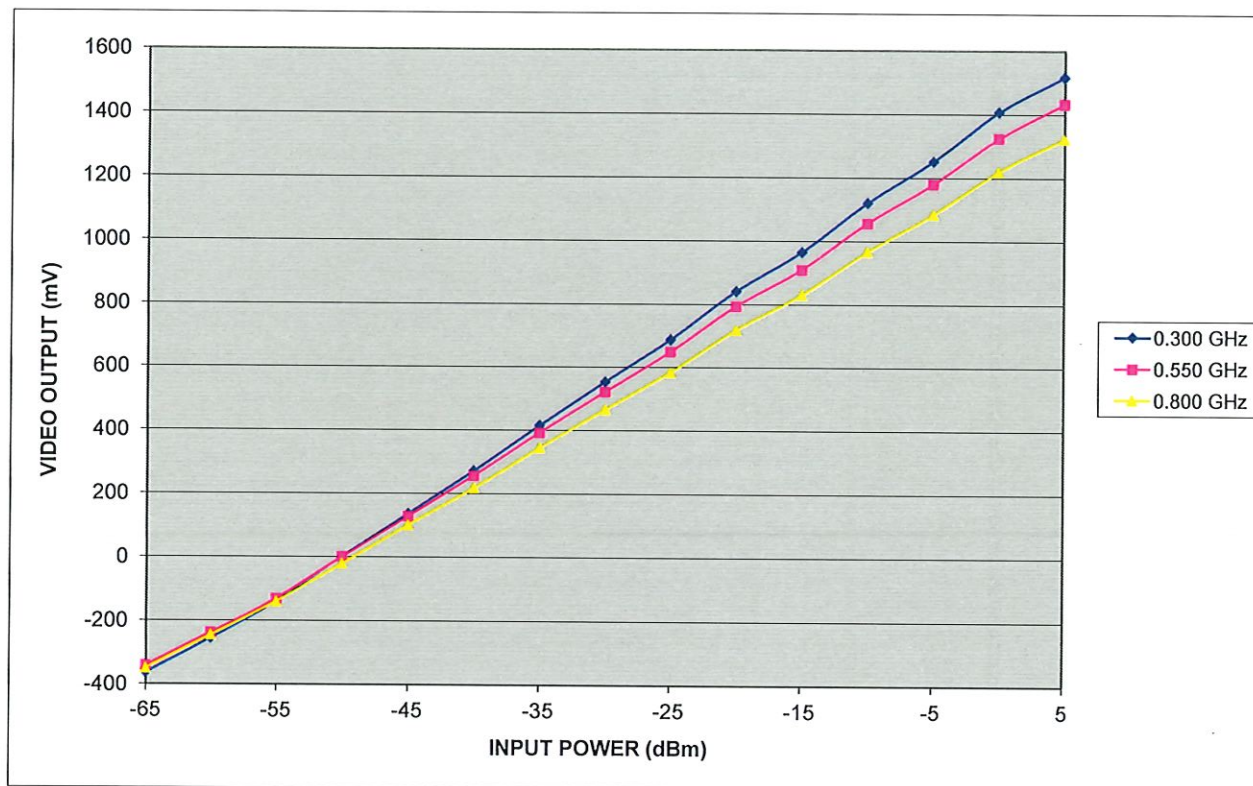
VIDEO RISE TIME  
 25 nS MAX @ 25C        24 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C        46 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C        34 nS

+5 V @ 70 mA MAX        16 mA

-5.2 V @ 200 mA MAX    120mA



LIMITED IF OUTPUT MAX        -15.94 dBm  
 LIMITED IF OUTPUT MIN        -17.30 dBm  
 LIMITED IF FLATNESS            ± 0.68 dBm

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Frequency

0.30 INTERCEPT (mV) 1456  
 SLOPE (mV/dB) 28.75  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1380  
 SLOPE (mV/dB) 27.17  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1273  
 SLOPE (mV/dB) 25.45  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.73  
 LINEARITY(-65 TO +5dBm) ± 1.42  
 FREQUENCY FLATNESS ± 3.85

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-375	-261	-138	9	152	293	443	587	726	887	1016	1179	1316	1477	1698	Measured Value (mV)
0.30 Error (mV)	38	7	-13	-10	-11	-14	-7	-7	-12	6	-10	10	3	21	-2	Error (mV)
0.30 Limited IF Output (dBm)	-17.00	-16.24	-15.95	-15.81	-15.73	-15.67	-15.64	-15.63	-15.62	-15.62	-15.62	-15.63	-15.64	-15.64	-15.64	Measured Value (mV)
0.55 Measured Value (mV)	-347	-239	-128	11	145	279	422	558	690	842	963	1117	1248	1398	1519	Measured Value (mV)
0.55 Error (mV)	39	11	-14	-11	-13	-14	-7	-7	-11	5	-10	9	4	18	3	Error (mV)
0.55 Limited IF Output (dBm)	-16.78	-16.23	-15.98	-15.83	-15.75	-15.70	-15.69	-15.70	-15.70	-15.71	-15.71	-15.72	-15.72	-15.73	-15.75	Measured Value (mV)
0.80 Measured Value (mV)	-351	-243	-134	-7	119	240	373	501	624	766	881	1024	1149	1291	1405	Measured Value (mV)
0.80 Error (mV)	30	11	-7	-8	-9	-14	-9	-9	-12	2	-10	6	4	18	5	Error (mV)
0.80 Limited IF Output (dBm)	-16.78	-16.18	-15.94	-15.80	-15.74	-15.73	-15.74	-15.75	-15.75	-15.75	-15.75	-15.76	-15.76	-15.77	-15.80	Measured Value (mV)

TSS 25C  
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.63 V

INPUT VSWR  
 2:1 MAX @ 25C 1.20:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.72:1

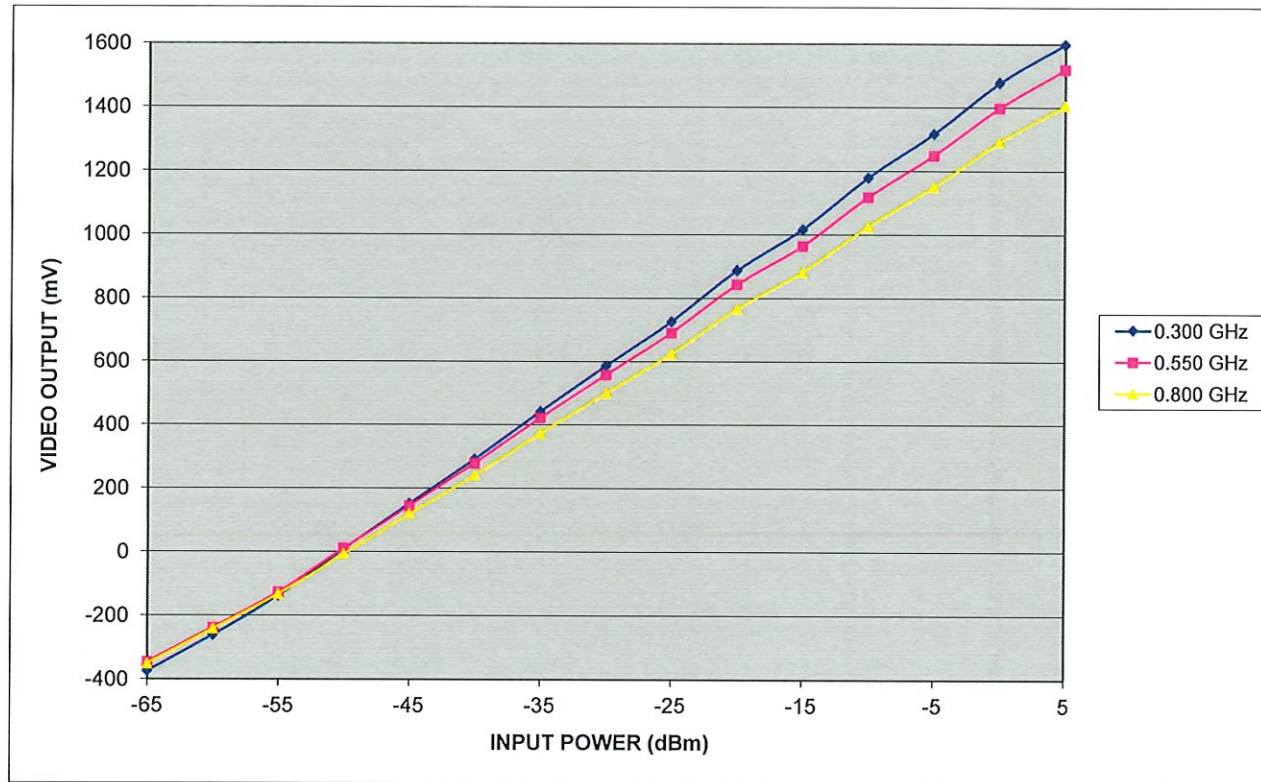
VIDEO RISE TIME  
 25 nS MAX @ 25C 24 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 120mA



LIMITED IF OUTPUT MAX -15.62 dBm  
 LIMITED IF OUTPUT MIN -17.00 dBm  
 LIMITED IF FLATNESS ± 0.69 dBm

LOG TRANSFER WITH FREQUENCY @ -55 °C  
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Frequency

0.30 INTERCEPT (mV) 1806  
 SLOPE (mV/dB) 28.15  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1730  
 SLOPE (mV/dB) 26.65  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1641  
 SLOPE (mV/dB) 25.15  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.14  
 LINEARITY(-65 TO +5dBm) ± 1.35  
 FREQUENCY FLATNESS ± 3.38

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-62	94	272	410	546	711	822	970	1117	1241	1381	1533	1651	1814	1916	
0.30 Error (mV)	-38	-23	14	12	8	32	2	9	15	-2	-3	9	-14	8	-30	
0.30 Limited IF Output (dBm)	-16.21	-16.09	-16.18	-16.21	-16.16	-16.17	-16.18	-16.15	-16.15	-16.17	-16.18	-16.18	-16.19	-16.19	-16.19	
0.55 Measured Value (mV)	-29	116	273	407	532	689	796	939	1078	1193	1329	1473	1683	1738	1838	
0.55 Error (mV)	-27	-15	9	10	1	25	-1	9	14	-3	-1	10	-13	8	-24	
0.55 Limited IF Output (dBm)	-16.13	-16.06	-16.09	-16.08	-16.09	-16.15	-16.11	-16.11	-16.13	-16.16	-16.16	-16.15	-16.15	-16.17	-16.18	
0.80 Measured Value (mV)	0	135	265	364	495	661	761	892	1023	1135	1264	1399	1507	1654	1747	
0.80 Error (mV)	-7	3	7	-19	-15	25	0	5	11	-4	0	9	-9	13	-20	
0.80 Limited IF Output (dBm)	-16.12	-16.08	-16.08	-16.08	-16.99	-16.15	-16.14	-16.12	-16.15	-16.17	-16.16	-16.15	-16.15	-16.17	-16.23	

TSS 25C  
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.63 V

INPUT VSWR  
 2:1 MAX @ 25C 1.20:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.72:1

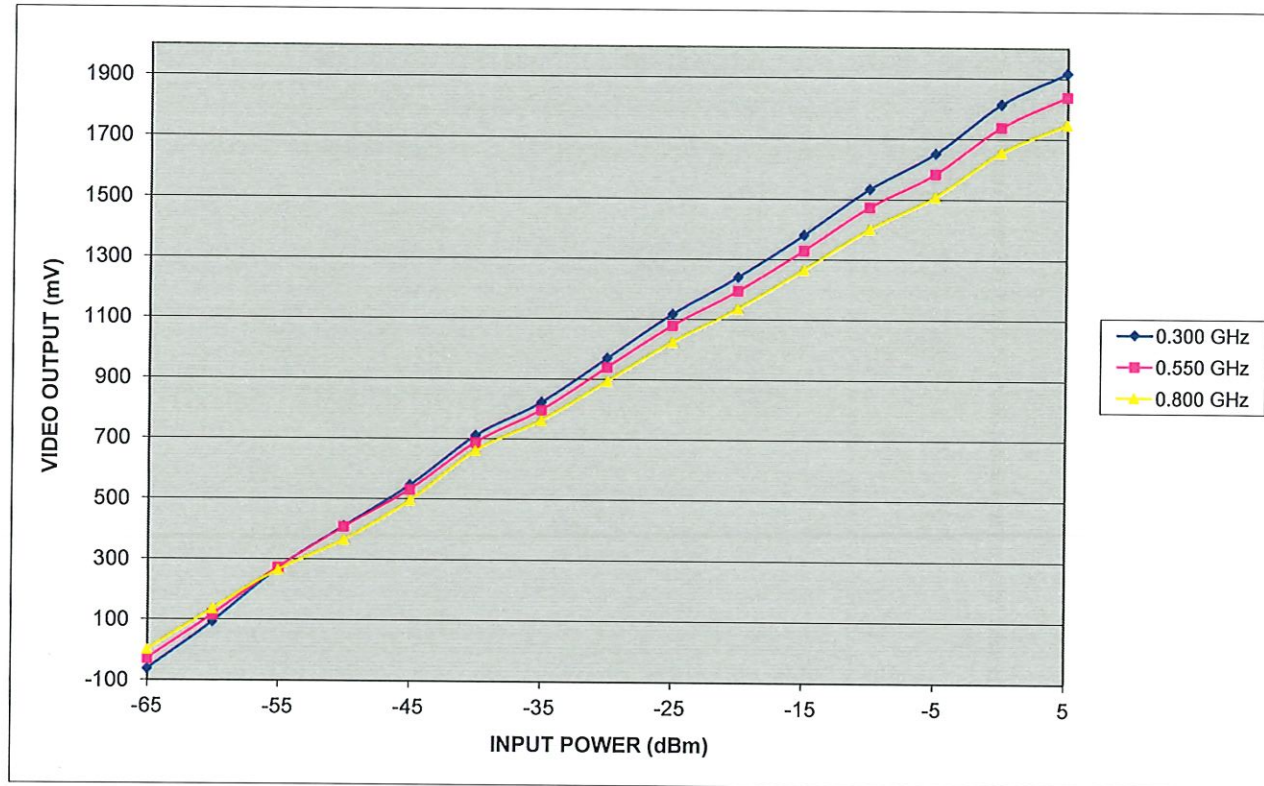
VIDEO RISE TIME  
 25 nS MAX @ 25C 24 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 121mA



LIMITED IF OUTPUT MAX -15.99 dBm  
 LIMITED IF OUTPUT MIN -16.23 dBm  
 LIMITED IF FLATNESS ± 0.12 dBm