

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4363  
 TESTED BY: H. HAHN  
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
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 EMAIL: SALES@PLANARMONOLITHICS.COM  
 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1531  
 SLOPE (mV/dB) 27.38  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1472  
 SLOPE (mV/dB) 26.01  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1376  
 SLOPE (mV/dB) 24.45  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.86  
 LINEARITY(-65 TO +5dBm) ± 0.94  
 FREQUENCY FLATNESS ± 3.21

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-235	-110	18	169	284	435	571	701	846	983	1111	1268	1392	1550	1658	
0.30 Error (mV)	14	1	-7	7	-14	-1	-1	-9	0	-1	-9	11	-2	20	-9	
0.30 Limited IF Output (dBm)	-16.63	-16.30	-16.20	-16.12	-16.07	-16.02	-16.00	-15.99	-15.98	-15.98	-15.98	-15.99	-15.99	-16.00	-16.00	
0.55 Measured Value (mV)	-198	-88	36	172	286	430	559	682	824	950	1074	1223	1340	1489	1595	
0.55 Error (mV)	21	1	-6	0	-16	-1	-3	-10	2	-2	-8	11	-1	17	-7	
0.55 Limited IF Output (dBm)	-16.51	-16.28	-16.16	-16.06	-15.98	-15.97	-16.00	-16.01	-16.01	-16.02	-16.03	-16.03	-16.03	-16.04	-16.06	
0.80 Measured Value (mV)	-190	-82	31	153	255	390	515	630	764	884	1002	1141	1254	1396	1498	
0.80 Error (mV)	23	9	0	-1	-21	-8	-6	-12	-1	-4	-7	9	0	20	-1	
0.80 Limited IF Output (dBm)	-16.43	-16.20	-16.11	-16.05	-16.00	-15.95	-15.98	-16.01	-16.02	-16.03	-16.03	-16.03	-16.04	-16.05	-16.10	

TSS 25C  
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.28V

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

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.39:1

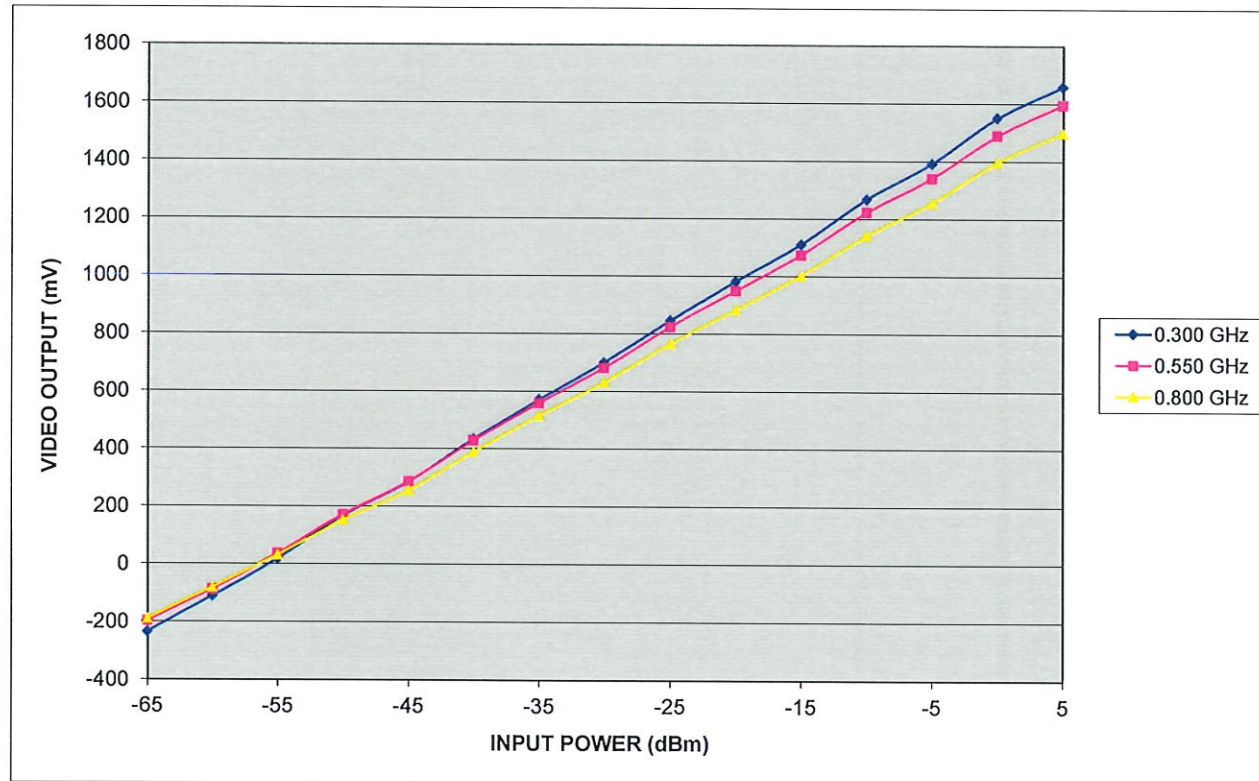
VIDEO RISE TIME  
 25 nS MAX @ 25C 16 nS

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 125 mA



LIMITED IF OUTPUT MAX -15.95 dBm  
 LIMITED IF OUTPUT MIN -16.63 dBm  
 LIMITED IF FLATNESS ± 0.34 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4363  
 TESTED BY: B. Baker  
 DATE: 12/AUG/2008

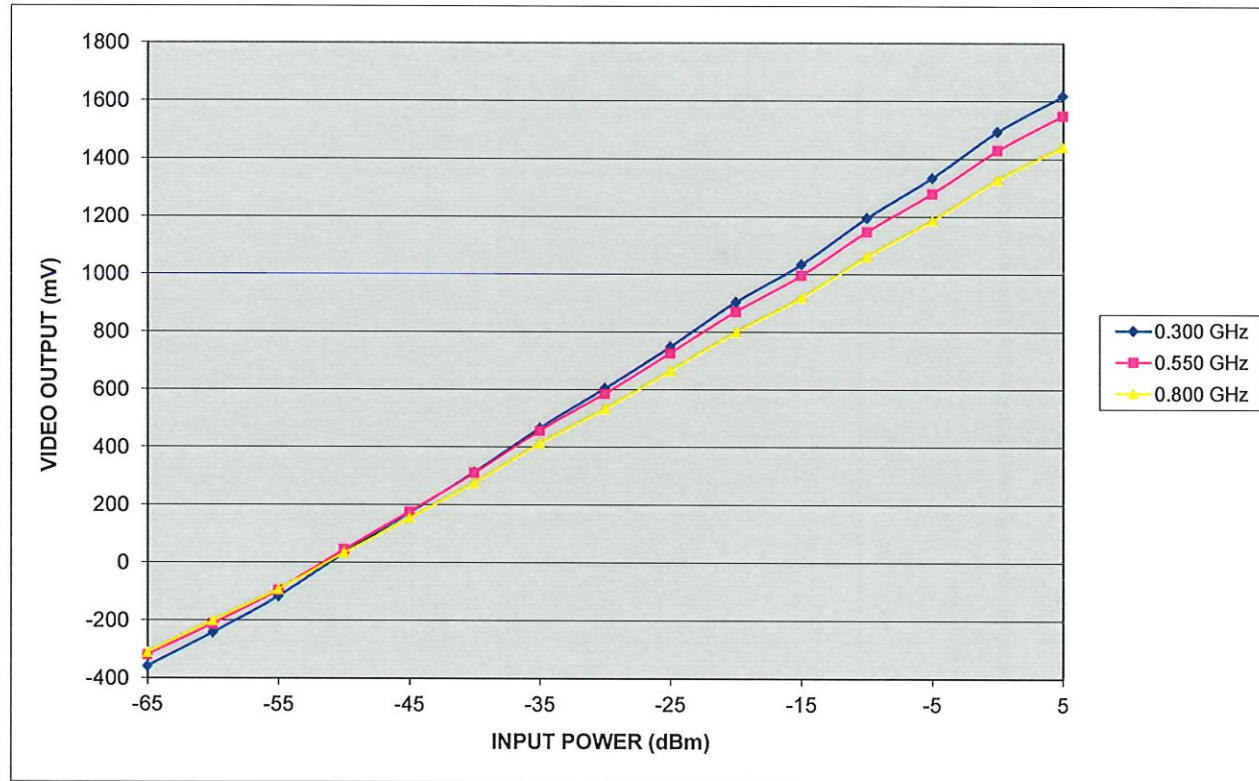


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Frequency

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
0.30 INTERCEPT (mV)	1474																Measured Value (mV)
SLOPE (mV/dB)	28.69																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.55 INTERCEPT (mV)	1412																Measured Value (mV)
SLOPE (mV/dB)	27.18																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.80 INTERCEPT (mV)	1307																Measured Value (mV)
SLOPE (mV/dB)	25.36																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
LINEARITY(-60 TO 0dBm)	± 0.76																
LINEARITY(-65 TO +5dBm)	± 1.30																
FREQUENCY FLATNESS	± 3.53																

TSS	25C	
-65dBm MAX	-65 dBm	
OUTPUT VOLTAGE	25C	
2.7V MAX	2.18	
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 -15.40 dBm  
 LIMITED IF OUTPUT MIN -16.62 dBm  
 LIMITED IF FLATNESS ± 0.61 dBm



LOG TRANSFER WITH FREQUENCY @ +95 °C  
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Frequency

0.30 INTERCEPT (mV) 1454  
 SLOPE (mV/dB) 28.77  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1390  
 SLOPE (mV/dB) 27.23  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1285  
 SLOPE (mV/dB) 25.44  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.73  
 LINEARITY(-65 TO +5dBm) ± 1.41  
 FREQUENCY FLATNESS ± 3.59

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-379	-266	-140	7	150	289	442	583	724	883	1013	1173	1314	1473	1600	Measured Value (mV)
0.30 Error (mV)	37	6	-12	-9	-10	-14	-5	-8	-10	4	-10	7	3	19	2	Error (mV)
0.30 Measured Value (mV)	-16.71	-16.01	-15.73	-15.68	-15.50	-15.44	-15.40	-15.38	-15.37	-15.37	-15.37	-15.38	-15.38	-15.38	-15.39	Measured Value (mV)
0.55 Measured Value (mV)	-341	-234	-120	19	152	285	433	563	701	848	973	1125	1258	1407	1531	Measured Value (mV)
0.55 Error (mV)	39	9	-12	-10	-12	-16	-5	-10	-9	3	-9	7	4	17	5	Error (mV)
0.55 Measured Value (mV)	-16.41	-15.93	-15.69	-15.54	-15.45	-15.40	-15.39	-15.40	-15.40	-15.41	-15.41	-15.42	-15.42	-15.43	-15.45	Measured Value (mV)
0.80 Measured Value (mV)	-338	-228	-120	6	130	249	386	508	638	775	894	1035	1163	1303	1420	Measured Value (mV)
0.80 Error (mV)	31	13	-5	-7	-10	-18	-8	-13	-11	-1	-9	5	5	18	8	Error (mV)
0.80 Measured Value (mV)	-16.31	-15.82	-15.61	-15.49	-15.44	-15.43	-15.43	-15.44	-15.45	-15.45	-15.45	-15.45	-15.45	-15.46	-15.47	Measured Value (mV)

TSS 25C  
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.17

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

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

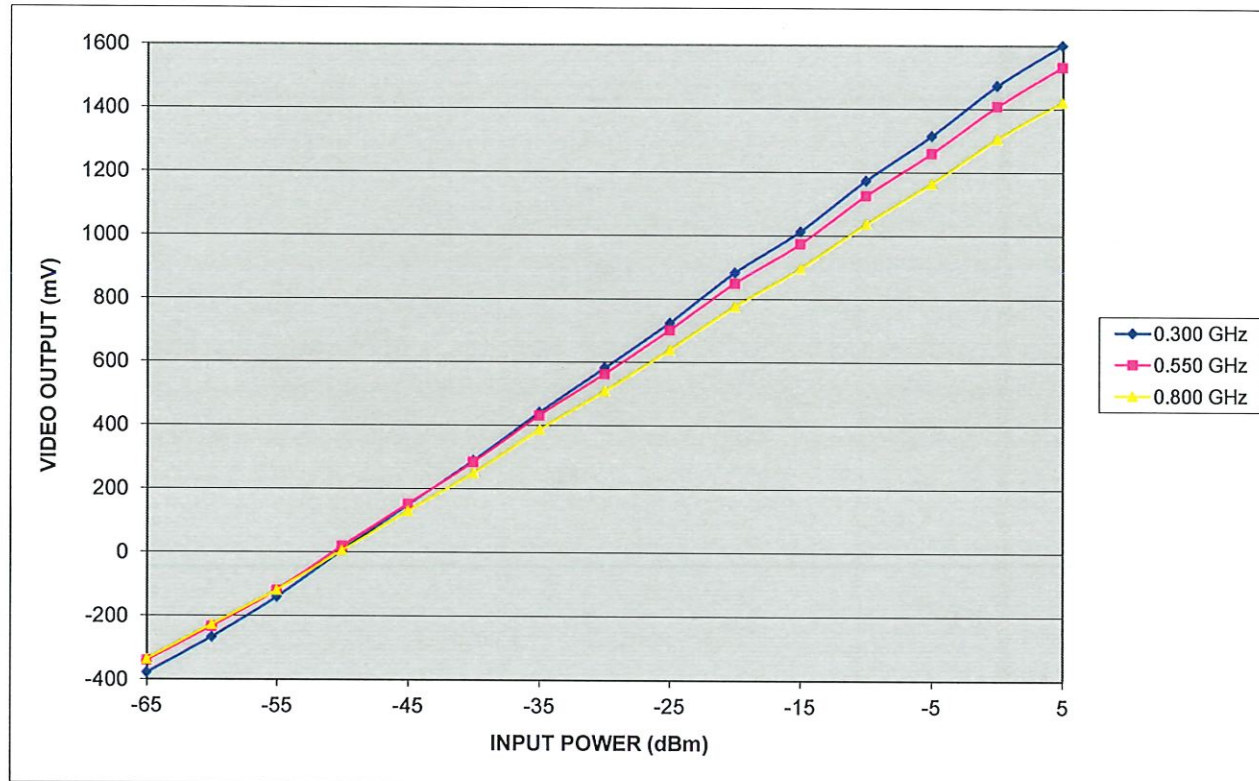
VIDEO RISE TIME  
 25 nS MAX @ 25C 16 nS

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 -15.37 dBm  
 LIMITED IF OUTPUT MIN -16.71 dBm  
 LIMITED IF FLATNESS ± 0.67 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
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Frequency

0.30 INTERCEPT (mV) 1893  
 SLOPE (mV/dB) 29.73  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1828  
 SLOPE (mV/dB) 28.31  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1737  
 SLOPE (mV/dB) 26.67  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.22  
 LINEARITY(-65 TO +5dBm) ± 1.22  
 FREQUENCY FLATNESS ± 3.35

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-68	74	279	419	559	736	856	1009	1167	1295	1438	1605	1728	1893	2025	
0.30 Error (mV)	-29	-35	21	13	4	32	4	8	18	-3	-9	9	-16	0	-16	
0.30 Limited IF Output (dBm)	-15.44	-15.45	-16.65	-15.73	-15.74	-15.76	-15.78	-15.76	-15.75	-15.77	-15.78	-15.79	-15.79	-15.80	-15.80	
0.55 Measured Value (mV)	-39	101	285	423	563	724	839	986	1138	1256	1397	1554	1671	1827	1955	
0.55 Error (mV)	-27	-28	14	11	9	28	2	7	17	-5	-6	9	-16	-1	-14	
0.55 Limited IF Output (dBm)	-15.37	-15.42	-15.48	-15.57	-15.68	-15.65	-15.62	-15.61	-15.63	-15.65	-15.66	-15.65	-15.65	-15.66	-15.67	
0.80 Measured Value (mV)	-20	120	262	418	566	702	803	937	1080	1194	1330	1477	1591	1740	1858	
0.80 Error (mV)	-24	-17	-8	15	20	32	-1	1	10	-9	-7	7	-12	4	-12	
0.80 Limited IF Output (dBm)	-15.36	-15.39	-15.42	-15.56	-15.62	-15.66	-15.65	-15.61	-15.61	-15.61	-15.60	-15.60	-15.60	-15.63	-15.68	

TSS 25C  
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.46

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

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

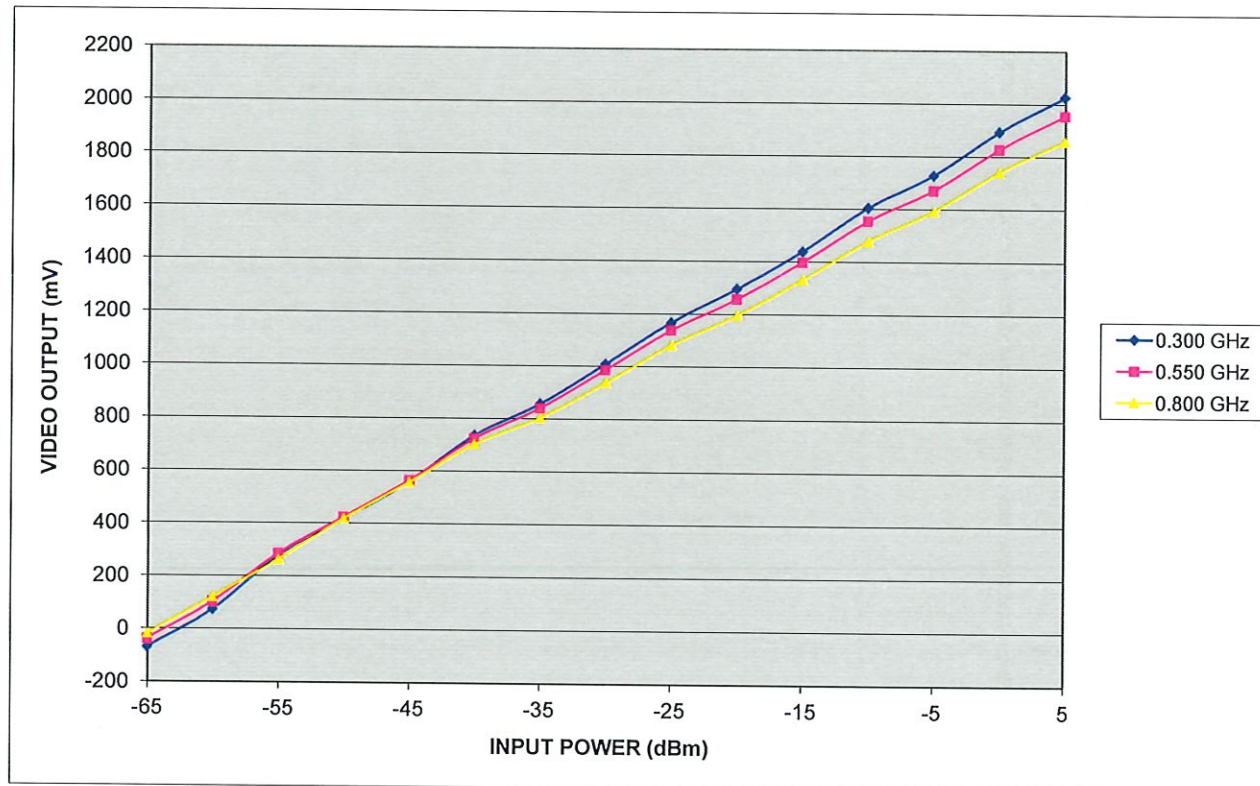
VIDEO RISE TIME  
 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 15 mA

-5.2 V @ 200 mA MAX 124 mA



LIMITED IF OUTPUT MAX -15.36 dBm  
 LIMITED IF OUTPUT MIN -15.80 dBm  
 LIMITED IF FLATNESS ± 0.22 dBm