

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4299  
 TESTED BY: H. HAHN  
 DATE: 5/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1562  
 SLOPE (mV/dB) 27.68  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1498  
 SLOPE (mV/dB) 26.25  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1400  
 SLOPE (mV/dB) 24.52  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77  
 LINEARITY(-65 TO +5dBm) ± 0.97  
 FREQUENCY FLATNESS ± 3.36

TSS 25C  
 -65dBm MAX -70 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.4V

INPUT VSWR 2:1 MAX @ 25C 1.16:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.32:1

VIDEO RISE TIME 25 nS MAX @ 25C 20 nS

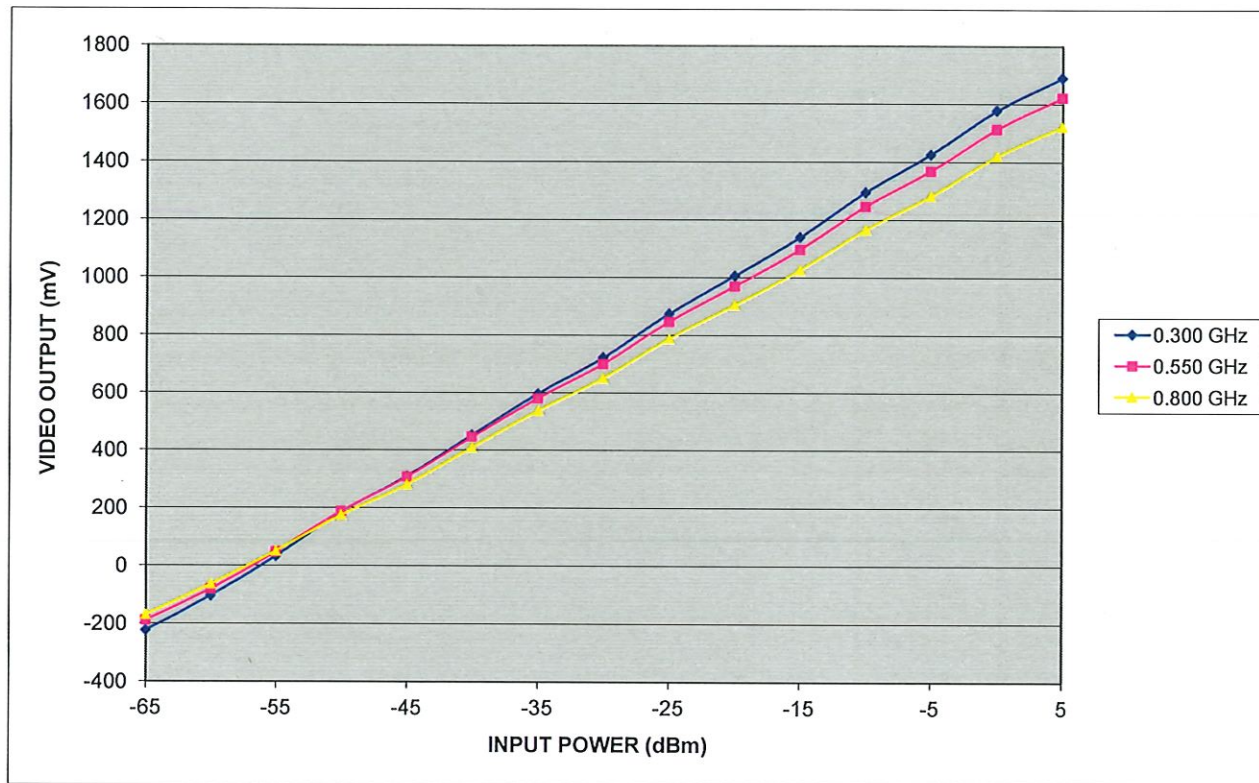
VIDEO FALL TIME 80 nS MAX @ 25C 44 nS

PROPERGATION DELAY 40 nS MAX @ 25C 16 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 117 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)	-224	-104	33	185	309	452	597	722	874	1005	1139	1295	1425	1577	1690	Measured Value (mV)
0.30 Error (mV)	14	-5	-7	7	-8	-3	3	-10	4	-3	-8	10	1	15	-11	Error (mV)
0.30 Limited IF Output (dBm)	-16.93	-16.66	-16.43	-16.35	-16.30	-16.26	-16.24	-16.23	-16.23	-16.23	-16.24	-16.25	-16.25	-16.25	-16.26	Measured Value (mV)
0.55 Measured Value (mV)	-189	-81	47	187	306	445	580	699	845	969	1096	1246	1368	1513	1621	Measured Value (mV)
0.55 Error (mV)	20	-4	-6	2	-10	-3	1	-11	4	-4	-8	10	1	15	-8	Error (mV)
0.55 Limited IF Output (dBm)	-16.82	-16.67	-16.43	-16.33	-16.25	-16.24	-16.26	-16.28	-16.28	-16.29	-16.30	-16.30	-16.30	-16.30	-16.33	Measured Value (mV)
0.80 Measured Value (mV)	-170	-65	50	175	280	408	536	649	786	903	1024	1164	1280	1418	1522	Measured Value (mV)
0.80 Error (mV)	24	7	-1	1	-16	-11	-6	-15	-1	-6	-8	10	3	19	0	Error (mV)
0.80 Limited IF Output (dBm)	-16.71	-16.48	-16.39	-16.35	-16.32	-16.29	-16.30	-16.32	-16.34	-16.35	-16.35	-16.35	-16.35	-16.37	-16.41	Measured Value (mV)



LIMITED IF OUTPUT MAX -16.23 dBm  
 LIMITED IF OUTPUT MIN -16.93 dBm  
 LIMITED IF FLATNESS ± 0.35 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4299  
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 DATE: 4/AUG/2008



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Frequency

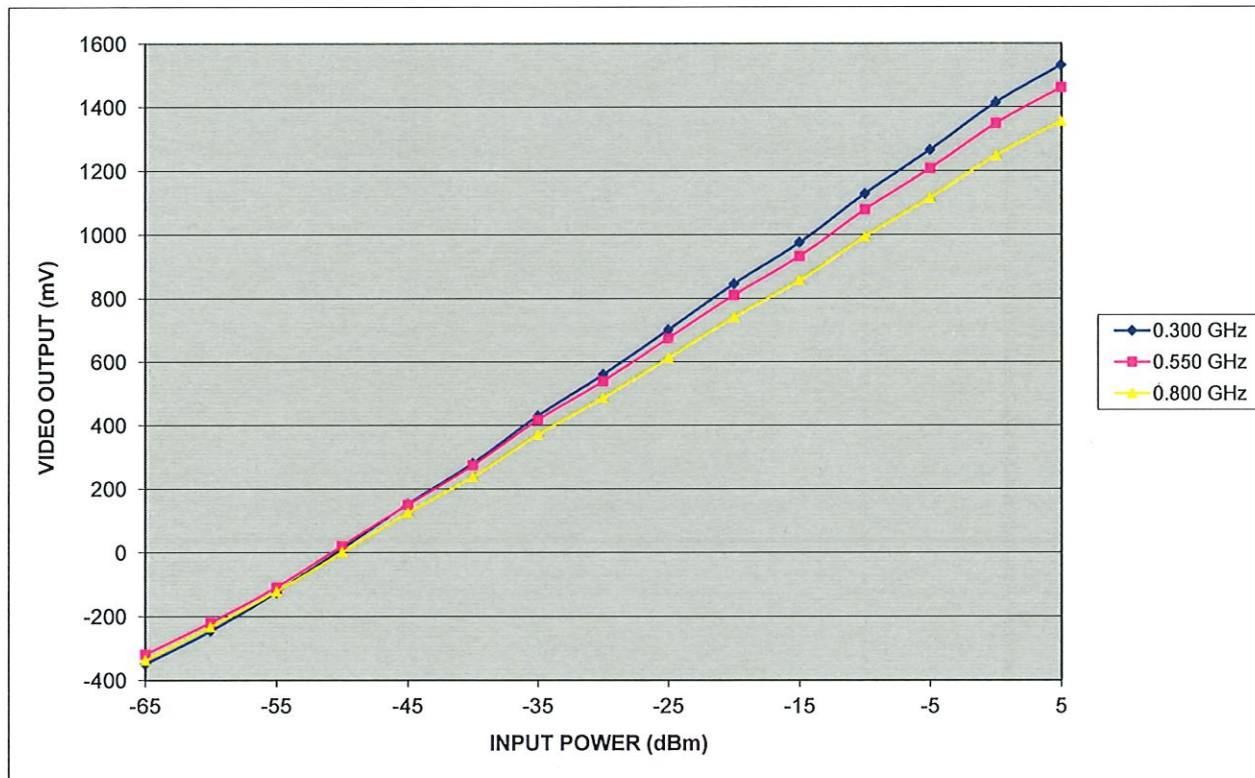
0.30 INTERCEPT (mV)    1395  
 SLOPE (mV/dB)    27.43  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1330  
 SLOPE (mV/dB)    25.96  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1232  
 SLOPE (mV/dB)    24.53  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.73  
 LINEARITY(-65 TO +5dBm)    ± 1.49  
 FREQUENCY FLATNESS    ± 3.53

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-349	-246	-126	13	153	280	430	560	701	846	975	1128	1265	1414	1531	Measured Value (mV)
0.30 Error (mV)	39	5	-11	-10	-8	-17	-4	-12	-8	-1	-9	8	8	19	0	Error (mV)
0.30 Limited IF Output (dBm)	-17.13	-16.48	-16.21	-16.07	-16.99	-16.94	-16.90	-16.88	-16.88	-16.88	-16.88	-16.88	-16.88	-16.88	-16.87	Measured Value (mV)
0.55 Measured Value (mV)	-319	-219	-109	22	151	274	417	539	673	810	932	1079	1207	1349	1461	Measured Value (mV)
0.55 Error (mV)	39	8	-11	-10	-11	-17	-4	-12	-8	-1	-9	8	7	19	1	Error (mV)
0.55 Limited IF Output (dBm)	-16.89	-16.43	-16.20	-16.07	-16.98	-16.93	-16.92	-16.93	-16.94	-16.95	-16.96	-16.96	-16.96	-16.97	-16.00	Measured Value (mV)
0.80 Measured Value (mV)	-337	-234	-122	1	125	238	371	487	612	741	856	994	1115	1248	1355	Measured Value (mV)
0.80 Error (mV)	24	5	-6	-5	-4	-14	-3	-10	-7	-1	-8	6	6	16	0	Error (mV)
0.80 Limited IF Output (dBm)	-17.02	-16.45	-16.19	-16.06	-16.00	-16.00	-16.01	-16.02	-16.02	-16.03	-16.03	-16.03	-16.04	-16.06	-16.11	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.87 dBm  
 LIMITED IF OUTPUT MIN    -17.13 dBm  
 LIMITED IF FLATNESS    ± 0.63 dBm



LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4299  
 TESTED BY: H. HAHN  
 DATE: 4/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1376  
 SLOPE (mV/dB)    27.48  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1311  
 SLOPE (mV/dB)    26.03  
 LIMITED IF OUTPUT (dBm)

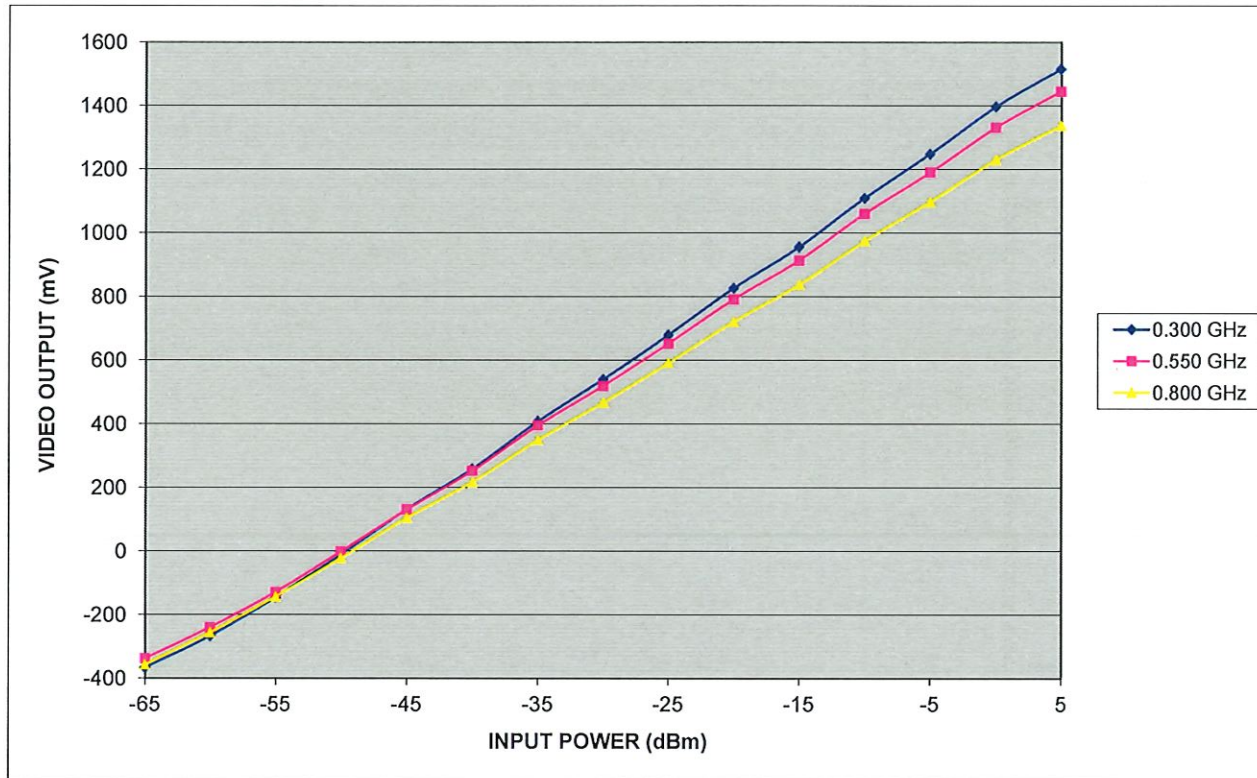
0.80 INTERCEPT (mV)    1213  
 SLOPE (mV/dB)    24.58  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.73  
 LINEARITY(-65 TO +5dBm)    ± 1.58  
 FREQUENCY FLATNESS    ± 3.56

	-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	-268	-147	-11	131	258	407	540	679	825	955	1108	1247	1396	1514	Measured Value (mV)
0.30 Error (mV)	43	6	-11	-13	-8	-19	-6	-11	-10	-1	-8	7	8	20	2	Error (mV)
0.30 Limited IF Output (dBm)	-17.34	-16.64	-16.33	-16.18	-16.09	-16.03	-15.99	-15.97	-15.97	-15.97	-15.97	-15.97	-15.97	-15.97	-15.96	Measured Value (mV)
0.55 Measured Value (mV)	-339	-241	-131	-2	130	252	395	519	652	790	912	1059	1189	1330	1444	Measured Value (mV)
0.55 Error (mV)	41	9	-11	-12	-10	-19	-6	-12	-9	-1	-9	8	8	19	3	Error (mV)
0.55 Limited IF Output (dBm)	-17.08	-16.68	-16.32	-16.17	-16.08	-16.03	-16.02	-16.02	-16.03	-16.04	-16.04	-16.04	-16.05	-16.06	-16.09	Measured Value (mV)
0.80 Measured Value (mV)	-358	-257	-145	-23	103	216	349	466	591	720	836	973	1096	1229	1336	Measured Value (mV)
0.80 Error (mV)	27	5	-6	-7	-3	-14	-4	-9	-8	-1	-8	6	6	16	1	Error (mV)
0.80 Limited IF Output (dBm)	-17.24	-16.61	-16.32	-16.16	-16.10	-16.09	-16.10	-16.11	-16.11	-16.12	-16.12	-16.12	-16.13	-16.15	-16.20	Measured Value (mV)

TSS                    95C  
 -65dBm MAX        -69 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX            2.29V



LIMITED IF OUTPUT MAX    -15.96 dBm  
 LIMITED IF OUTPUT MIN    -17.34 dBm  
 LIMITED IF FLATNESS       ±    0.69 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4299  
 TESTED BY: H. HAHN  
 DATE: 4/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1843  
 SLOPE (mV/dB) 29.05  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1778  
 SLOPE (mV/dB) 27.66  
 LIMITED IF OUTPUT (dBm)

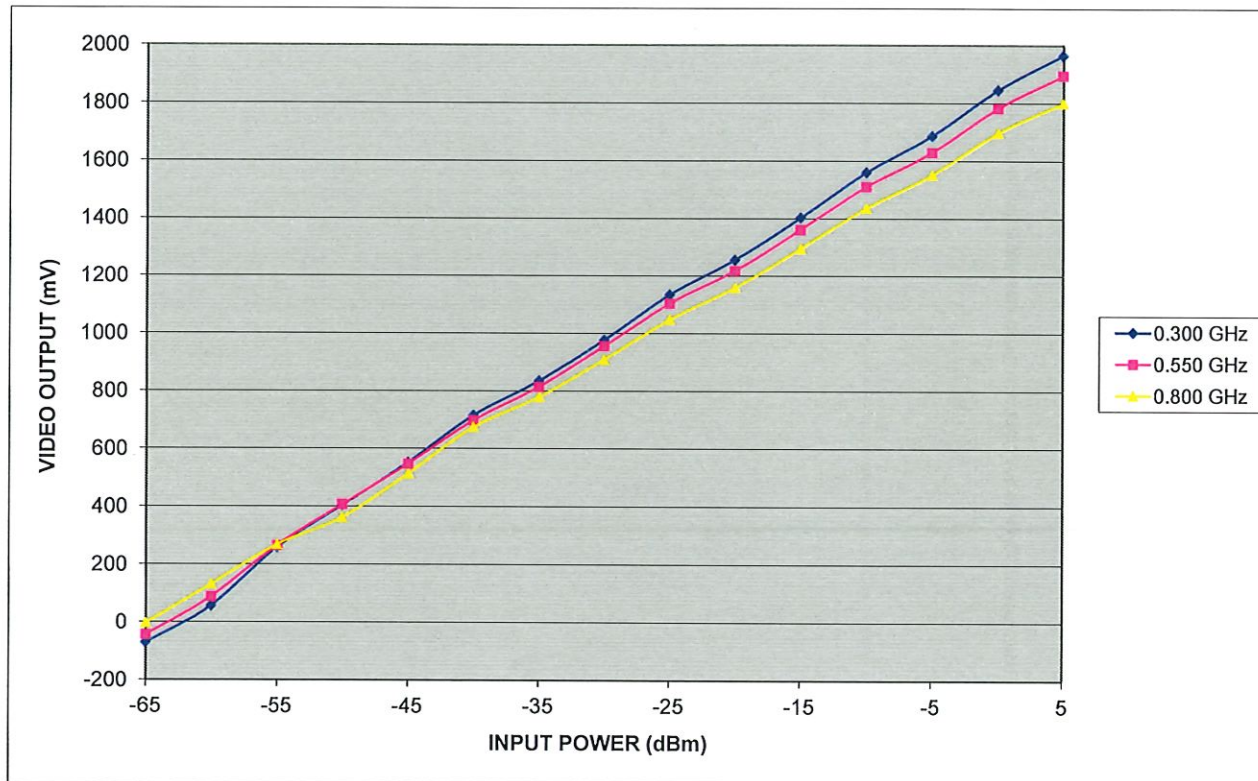
0.80 INTERCEPT (mV) 1685  
 SLOPE (mV/dB) 25.92  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.51  
 LINEARITY(-65 TO +5dBm) ± 1.51  
 FREQUENCY FLATNESS ± 3.31

TSS -54C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE -54C  
 2.7V MAX 2.59 V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-71	56	258	405	552	716	835	976	1135	1255	1402	1560	1686	1845	1964	Measured Value (mV)
0.30 Error (mV)	-26	-44	13	14	16	34	8	5	18	-7	-5	7	-12	2	-24	Error (mV)
0.30 Measured Value (mV)	-15.98	-16.94	-16.13	-16.20	-16.15	-16.17	-16.19	-16.17	-16.17	-16.19	-16.21	-16.21	-16.22	-16.23	-16.23	Measured Value (mV)
0.55 Measured Value (mV)	-45	87	265	407	548	698	814	955	1104	1217	1380	1510	1628	1782	1894	Measured Value (mV)
0.55 Error (mV)	-25	-31	8	12	14	26	4	7	18	-8	-3	8	-12	4	-23	Error (mV)
0.55 Measured Value (mV)	-15.91	-15.94	-16.01	-16.04	-16.14	-16.16	-16.09	-16.08	-16.12	-16.14	-16.15	-16.14	-16.14	-16.15	-16.17	Measured Value (mV)
0.80 Measured Value (mV)	-4	131	267	363	513	674	779	909	1048	1158	1294	1435	1550	1696	1799	Measured Value (mV)
0.80 Error (mV)	-4	1	8	-26	-5	26	1	1	11	-9	-2	9	-6	11	-16	Error (mV)
0.80 Measured Value (mV)	-15.90	-15.93	-15.97	-15.99	-15.98	-16.13	-16.10	-16.08	-16.11	-16.12	-16.11	-16.10	-16.10	-16.12	-16.19	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.90 dBm  
 LIMITED IF OUTPUT MIN -16.23 dBm  
 LIMITED IF FLATNESS ± 0.16 dBm