

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4318  
 TESTED BY: H. HAHN  
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
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 ISO 9001:2000 CERTIFIED

Frequency

-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 RF Input Power (dBm)

0.30 INTERCEPT (mV) 1599  
 SLOPE (mV/dB) 27.56  
 LIMITED IF OUTPUT (dBm)

-181	-58	84	228	348	497	633	760	914	1041	1177	1334	1462	1616	1730	Measured Value (mV)
12	-4	0	7	-10	0	-1	-13	4	-7	-9	10	1	17	-7	Error (mV)
-16.44	-16.18	-16.11	-16.05	-16.00	-15.96	-15.95	-15.94	-15.94	-15.94	-15.95	-15.95	-15.95	-15.95	-15.95	Measured Value (mV)

0.55 INTERCEPT (mV) 1534  
 SLOPE (mV/dB) 26.19  
 LIMITED IF OUTPUT (dBm)

-152	-41	93	226	344	486	614	736	884	1002	1132	1283	1403	1550	1659	Measured Value (mV)
17	-3	0	2	-11	0	-3	-12	5	-7	-8	11	0	16	-6	Error (mV)
-16.38	-16.20	-16.10	-16.02	-15.95	-15.94	-15.98	-15.99	-15.99	-16.00	-16.01	-16.01	-16.00	-16.01	-16.04	Measured Value (mV)

0.80 INTERCEPT (mV) 1436  
 SLOPE (mV/dB) 24.54  
 LIMITED IF OUTPUT (dBm)

-140	-30	92	209	314	448	569	685	824	937	1060	1201	1316	1455	1559	Measured Value (mV)
19	7	5	0	-17	-7	-8	-15	1	-9	-8	10	2	19	0	Error (mV)
-16.31	-16.14	-16.08	-16.05	-16.02	-15.98	-16.00	-16.02	-16.04	-16.05	-16.05	-16.05	-16.05	-16.07	-16.11	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.77  
 LINEARITY(-65 TO +5dBm) ± 0.79  
 FREQUENCY FLATNESS ± 3.41

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.46V

INPUT VSWR 2:1 MAX @ 25C  
 1.2:1

IF OUTPUT VSWR 2:1 MAX @ 25C  
 1.79:1

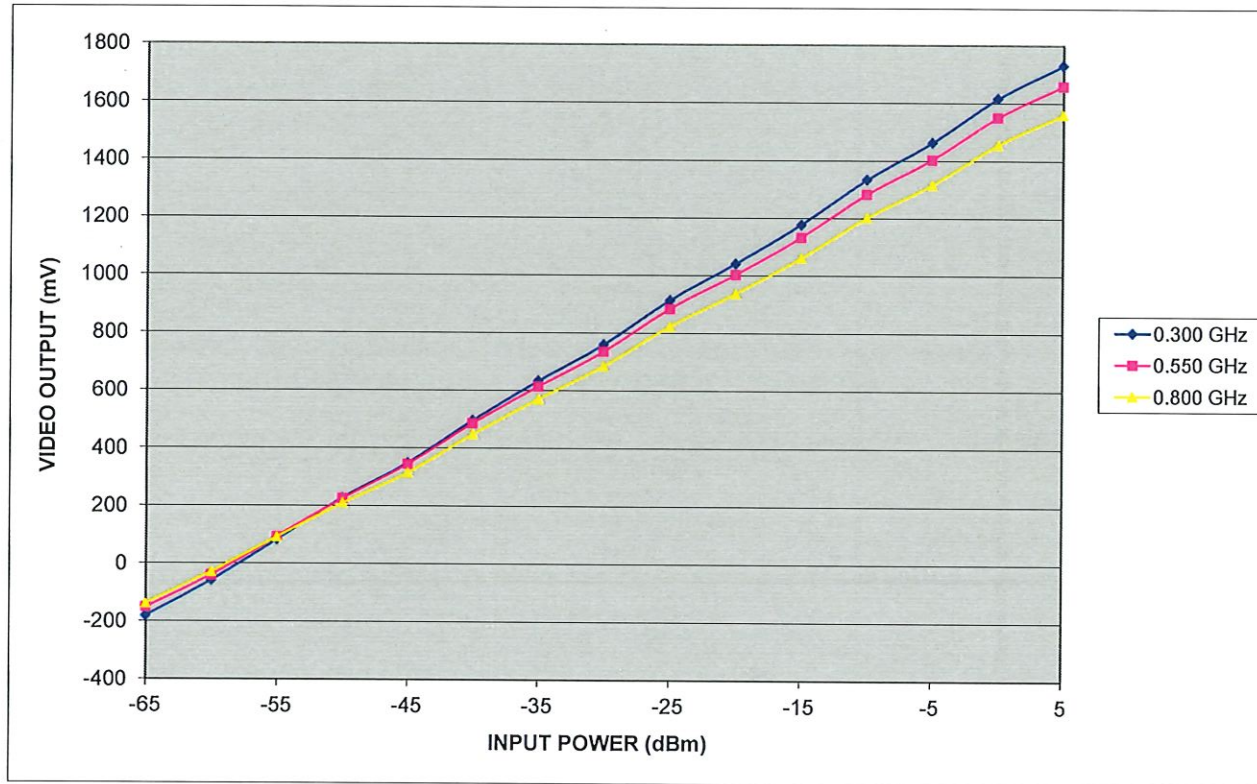
VIDEO RISE TIME 25 nS MAX @ 25C  
 17 nS

VIDEO FALL TIME 80 nS MAX @ 25C  
 36 nS

PROPAGATION DELAY 40 nS MAX @ 25C  
 15 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -15.94 dBm  
 LIMITED IF OUTPUT MIN -16.44 dBm  
 LIMITED IF FLATNESS ± 0.25 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4318  
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 DATE: 6/AUG/2008



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Frequency

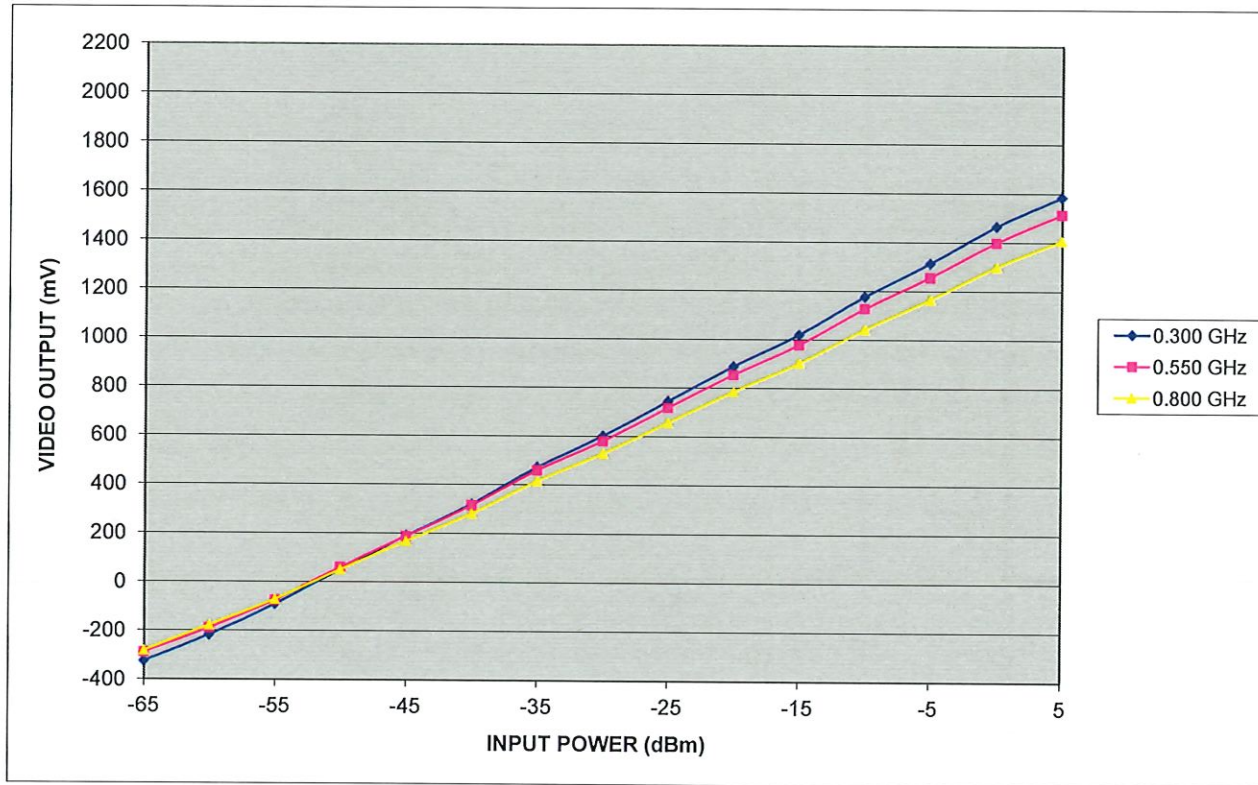
0.30 INTERCEPT (mV)    1446  
 SLOPE (mV/dB)    27.77  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1381  
 SLOPE (mV/dB)    26.27  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1278  
 SLOPE (mV/dB)    24.47  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.80  
 LINEARITY(-65 TO +5dBm)    ± 1.42  
 FREQUENCY FLATNESS    ± 3.57

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-324	-218	-92	52	190	320	472	601	745	889	1020	1176	1314	1465	1585	Measured Value (mV)
0.30 Error (mV)	35	2	-10	-5	-7	-15	-2	-12	-7	-2	-10	8	6	19	0	Error (mV)
0.30 Limited IF Output (dBm)	-16.94	-16.33	-16.07	-15.95	-15.87	-15.82	-15.78	-15.77	-15.76	-15.76	-15.77	-15.78	-15.78	-15.78	-15.78	Measured Value (mV)
0.55 Measured Value (mV)	-290	-190	-76	60	188	315	459	579	718	853	977	1127	1256	1399	1513	Measured Value (mV)
0.55 Error (mV)	37	6	-11	-7	-11	-15	-3	-13	-6	-2	-10	9	6	18	1	Error (mV)
0.55 Limited IF Output (dBm)	-16.71	-16.30	-16.08	-15.94	-15.86	-15.81	-15.81	-15.82	-15.83	-15.84	-15.84	-15.84	-15.85	-15.86	-15.88	Measured Value (mV)
0.80 Measured Value (mV)	-283	-178	-73	51	167	281	414	528	656	784	901	1041	1163	1297	1406	Measured Value (mV)
0.80 Error (mV)	30	13	-5	-3	-9	-18	-7	-16	-10	-5	-10	8	8	20	6	Error (mV)
0.80 Limited IF Output (dBm)	-16.61	-16.19	-16.01	-15.91	-15.88	-15.88	-15.89	-15.89	-15.90	-15.90	-15.90	-15.90	-15.91	-15.93	-15.96	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.76 dBm  
 LIMITED IF OUTPUT MIN    -16.94 dBm  
 LIMITED IF FLATNESS    ± 0.69 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4318  
 TESTED BY: H. HAHN  
 DATE: 4/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1424  
 SLOPE (mV/dB)    27.85  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1359  
 SLOPE (mV/dB)    26.33  
 LIMITED IF OUTPUT (dBm)

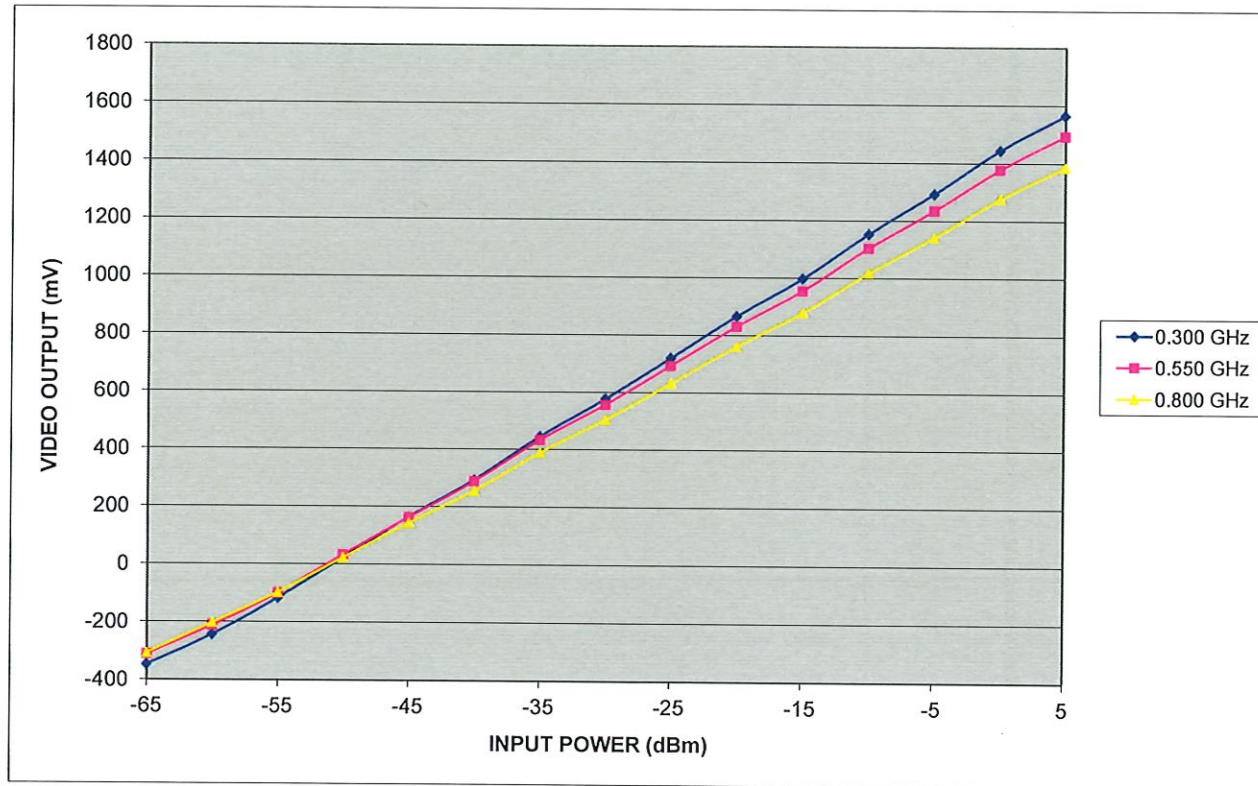
0.80 INTERCEPT (mV)    1256  
 SLOPE (mV/dB)    24.54  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.79  
 LINEARITY(-65 TO +5dBm)    ± 1.52  
 FREQUENCY FLATNESS    ± 3.60

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	-117	24	165	294	446	577	720	866	997	1153	1293	1443	1565	
0.30 Error (mV)	39	3	-10	-8	-6	-17	-4	-12	-9	-1	-9	7	7	19	1	
0.30 Limited IF Output (dBm)	-17.13	-16.45	-16.15	-16.02	-15.94	-15.88	-15.84	-15.83	-15.82	-15.82	-15.82	-15.83	-15.83	-15.83	-15.84	
0.55 Measured Value (mV)	-312	-213	-101	33	164	289	434	557	693	831	955	1104	1234	1378	1493	
0.55 Error (mV)	40	8	-12	-9	-11	-17	-4	-13	-8	-2	-10	8	7	19	3	
0.55 Limited IF Output (dBm)	-16.86	-16.40	-16.16	-16.01	-15.92	-15.88	-15.87	-15.87	-15.88	-15.89	-15.89	-15.90	-15.90	-15.91	-15.94	
0.80 Measured Value (mV)	-308	-204	-98	24	144	256	389	505	632	761	878	1018	1141	1275	1385	
0.80 Error (mV)	31	13	-4	-5	-8	-19	-8	-15	-11	-4	-10	7	8	19	6	
0.80 Limited IF Output (dBm)	-16.77	-16.29	-16.09	-15.98	-15.93	-15.93	-15.94	-15.95	-15.95	-15.96	-15.96	-15.96	-15.96	-15.96	-16.01	



LIMITED IF OUTPUT MAX    -15.82 dBm  
 LIMITED IF OUTPUT MIN    -17.13 dBm  
 LIMITED IF FLATNESS    ± 0.65 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4318  
 TESTED BY: H. HAHN  
 DATE: 9/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
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Frequency

0.30 INTERCEPT (mV)    1884  
 SLOPE (mV/dB)    28.67  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1817  
 SLOPE (mV/dB)    27.3  
 LIMITED IF OUTPUT (dBm)

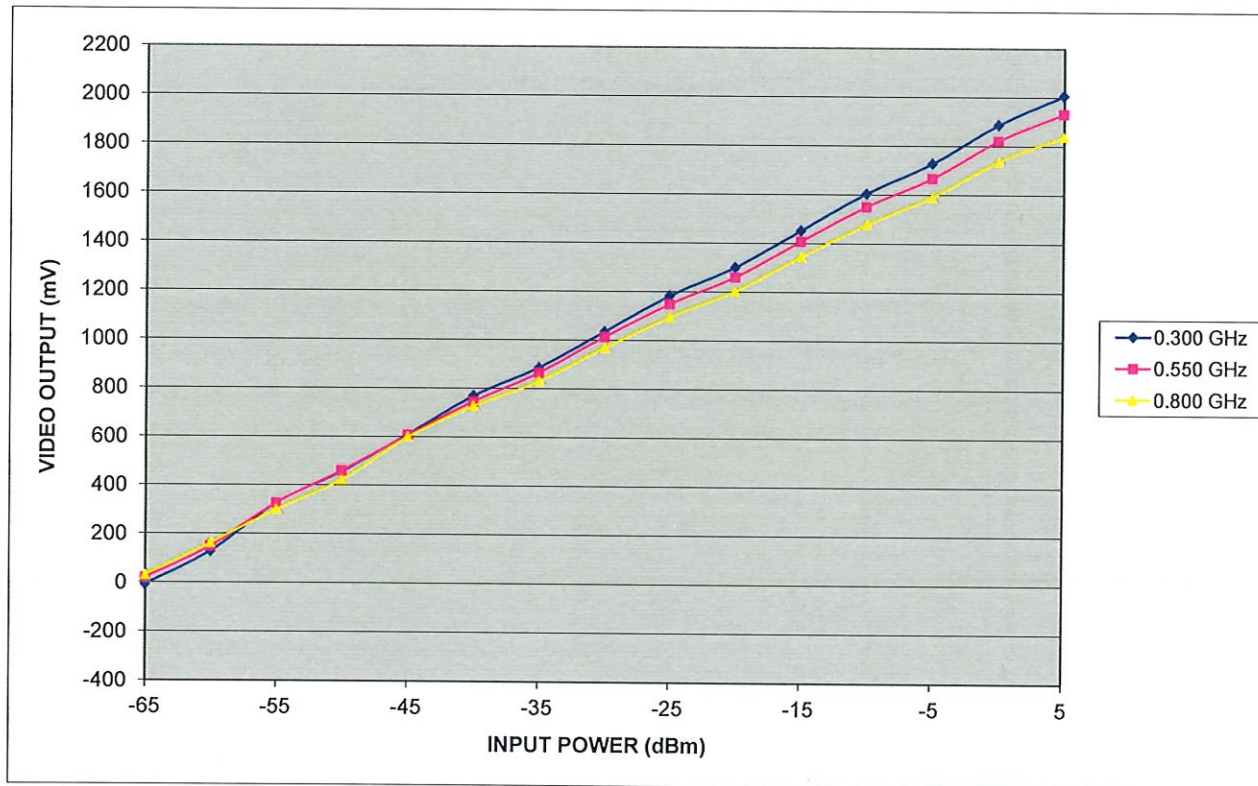
0.80 INTERCEPT (mV)    1731  
 SLOPE (mV/dB)    25.89  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 1.26  
 LINEARITY(-65 TO +5dBm)    ± 1.26  
 FREQUENCY FLATNESS    ± 3.34

TSS    -54C  
 -65dBm MAX    -66dBm

OUTPUT VOLTAGE    -54C  
 2.7V MAX    2.64V

	-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	128	324	456	609	769	886	1035	1183	1300	1451	1604	1727	1887	2006	Measured Value (mV)
0.30 Error (mV)	-29	-35	18	5	15	32	6	11	16	-11	-2	7	-14	3	-22	Error (mV)
0.30 Limited If Output (dBm)	-15.70	-15.67	-15.80	-15.89	-15.94	-15.95	-16.00	-15.96	-15.96	-15.99	-16.00	-16.01	-16.02	-16.02	-16.02	Measured Value (mV)
0.55 Measured Value (mV)	19	148	325	459	607	745	864	1013	1149	1260	1408	1551	1666	1821	1932	Measured Value (mV)
0.55 Error (mV)	-23	-31	10	7	18	21	3	15	15	-11	0	7	-14	4	-21	Error (mV)
0.55 Limited If Output (dBm)	-15.66	-15.66	-15.70	-15.79	-15.90	-15.89	-15.85	-15.90	-15.94	-15.96	-15.96	-15.95	-15.95	-15.95	-15.97	Measured Value (mV)
0.80 Measured Value (mV)	30	161	299	422	599	727	830	968	1095	1203	1344	1478	1591	1737	1838	Measured Value (mV)
0.80 Error (mV)	-19	-17	-8	-15	33	31	5	13	11	-11	1	5	-11	5	-22	Error (mV)
0.80 Limited If Output (dBm)	-15.64	-15.65	-15.70	-15.82	-15.88	-15.90	-15.86	-15.85	-15.89	-15.91	-16.90	-16.90	-16.90	-16.93	-16.00	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.64 dBm  
 LIMITED IF OUTPUT MIN    -16.02 dBm  
 LIMITED IF FLATNESS    ± 0.19 dBm