

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4351  
 TESTED BY: H. HAHN  
 DATE: 12/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1588  
 SLOPE (mV/dB) 27.98  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1524  
 SLOPE (mV/dB) 26.54  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1425  
 SLOPE (mV/dB) 24.76  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.81  
 LINEARITY(-65 TO +5dBm) ± 1.04  
 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)	-219	-95	45	198	321	467	612	738	892	1026	1162	1320	1450	1604	1716	Measured Value (mV)
0.30 Error (mV)	11	-5	-5	9	-8	-2	3	-11	3	-3	-7	11	2	15	-12	Error (mV)
0.30 Limited IF Output (dBm)	-16.64	-16.30	-16.20	-16.13	-16.08	-16.04	-16.02	-16.01	-16.00	-16.01	-16.01	-16.02	-16.03	-16.03	-16.04	Measured Value (mV)
0.55 Measured Value (mV)	-183	-73	59	198	318	460	595	716	864	989	1119	1270	1392	1540	1647	Measured Value (mV)
0.55 Error (mV)	19	-4	-5	2	-11	-2	0	-12	4	-4	-7	12	1	16	-10	Error (mV)
0.55 Limited IF Output (dBm)	-16.63	-16.31	-16.19	-16.09	-16.01	-16.00	-16.04	-16.05	-16.05	-16.06	-16.07	-16.07	-16.07	-16.08	-16.11	Measured Value (mV)
0.80 Measured Value (mV)	-169	-53	64	187	292	423	550	665	805	923	1047	1189	1305	1445	1547	Measured Value (mV)
0.80 Error (mV)	26	8	1	0	-19	-11	-8	-17	-1	-6	-6	12	4	20	-2	Error (mV)
0.80 Limited IF Output (dBm)	-16.42	-16.23	-16.15	-16.11	-16.08	-16.04	-16.06	-16.08	-16.10	-16.11	-16.11	-16.11	-16.11	-16.13	-16.17	Measured Value (mV)

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.43V

INPUT VSWR 2:1 MAX @ 25C  
 1.19:1

IF OUTPUT VSWR 2:1 MAX @ 25C  
 1.37:1

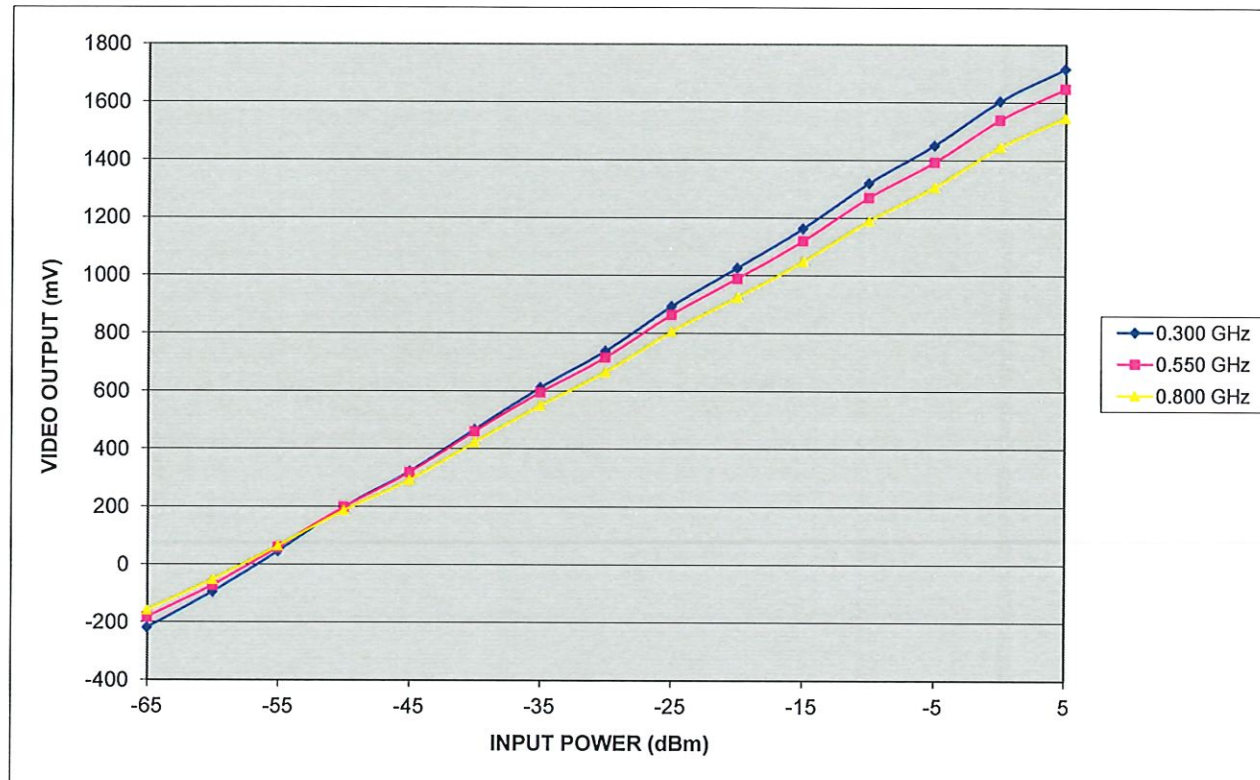
VIDEO RISE TIME 25 nS MAX @ 25C  
 14 nS

VIDEO FALL TIME 80 nS MAX @ 25C  
 46 nS

PROPAGATION DELAY 40 nS MAX @ 25C  
 18 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 117 mA



LIMITED IF OUTPUT MAX -16.00 dBm  
 LIMITED IF OUTPUT MIN -16.64 dBm  
 LIMITED IF FLATNESS ± 0.32 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4351  
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Frequency

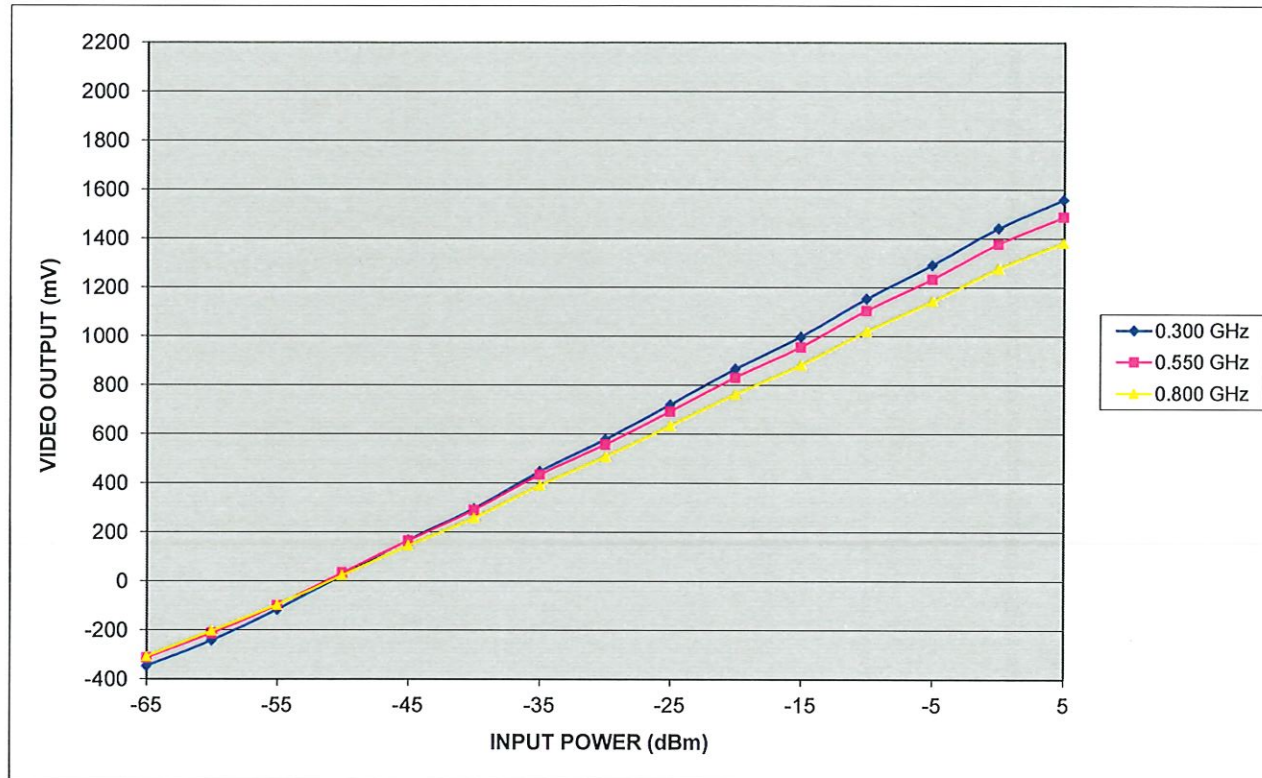
0.30 INTERCEPT (mV) 1422  
 SLOPE (mV/dB) 27.79  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1358  
 SLOPE (mV/dB) 26.3  
 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) ± 1.45  
 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)	-347	-243	-116	24	166	295	447	577	720	866	998	1153	1291	1441	1558	
0.30 Error (mV)	37	2	-10	-9	-6	-16	-3	-11	-8	0	-8	9	8	19	-3	
0.30 Measured Value (mV)	-17.16	-16.47	-16.19	-16.05	-15.97	-15.91	-15.87	-15.86	-15.85	-15.86	-15.86	-15.86	-15.87	-15.87	-15.87	
0.55 Measured Value (mV)	-313	-213	-100	34	164	289	434	557	693	831	956	1105	1234	1377	1488	
0.55 Error (mV)	38	7	-12	-9	-10	-17	-4	-12	-7	-1	-8	10	7	19	-1	
0.55 Measured Value (mV)	-16.90	-16.43	-16.19	-16.04	-15.95	-15.90	-15.89	-15.90	-15.91	-15.92	-15.92	-15.93	-15.93	-15.94	-15.97	
0.80 Measured Value (mV)	-309	-204	-98	23	144	256	390	505	633	762	880	1019	1142	1276	1381	
0.80 Error (mV)	30	13	-5	-6	-8	-19	-8	-15	-10	-3	-8	8	8	20	3	
0.80 Measured Value (mV)	-16.81	-16.33	-16.12	-16.01	-15.96	-15.96	-15.96	-15.97	-15.98	-15.98	-15.98	-15.99	-15.99	-16.01	-16.04	



LIMITED IF OUTPUT MAX -15.85 dBm  
 LIMITED IF OUTPUT MIN -17.16 dBm  
 LIMITED IF FLATNESS ± 0.66 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4351  
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 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1396  
 SLOPE (mV/dB) 27.75  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1331  
 SLOPE (mV/dB) 26.25  
 LIMITED IF OUTPUT (dBm)

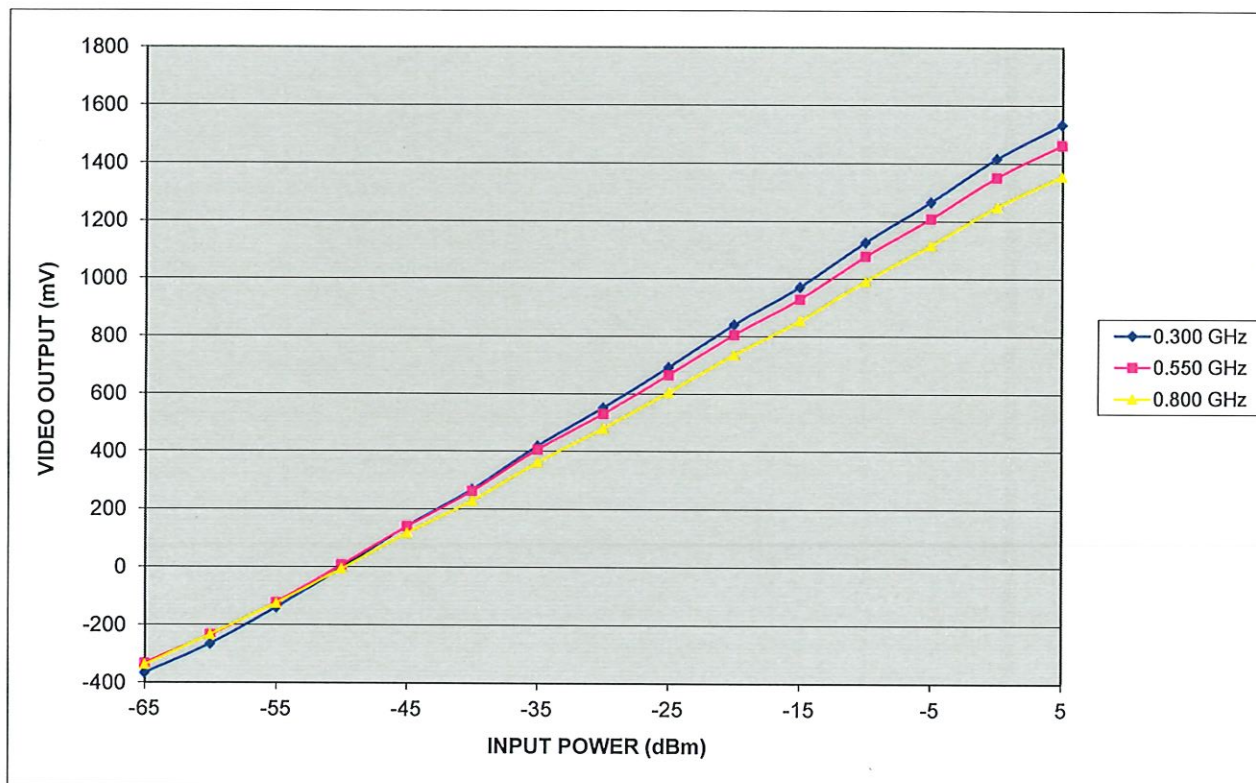
0.80 INTERCEPT (mV) 1230  
 SLOPE (mV/dB) 24.59  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77  
 LINEARITY(-65 TO +5dBm) ± 1.56  
 FREQUENCY FLATNESS ± 3.56

TSS 95C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 95C  
 2.7V MAX 2.32V

	-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	-266	-141	-3	141	268	419	552	692	840	972	1127	1266	1416	1533	Measured Value (mV)
0.30 Error (mV)	41	3	-10	-11	-6	-18	-5	-11	-10	0	-8	8	9	20	-1	Error (mV)
0.30 Limited If Output (dBm)	-17.47	-16.73	-16.41	-16.26	-16.17	-16.11	-16.07	-16.06	-16.05	-16.05	-16.05	-16.06	-16.06	-16.06	-16.06	Limited If Output (dBm)
0.55 Measured Value (mV)	-334	-235	-124	7	140	263	407	531	666	805	930	1078	1208	1351	1463	Measured Value (mV)
0.55 Error (mV)	41	9	-11	-11	-10	-18	-6	-12	-9	-1	-8	9	8	20	0	Error (mV)
0.55 Limited If Output (dBm)	-17.18	-16.67	-16.40	-16.25	-16.15	-16.11	-16.09	-16.10	-16.11	-16.11	-16.12	-16.12	-16.13	-16.14	-16.17	Limited If Output (dBm)
0.80 Measured Value (mV)	-339	-234	-126	-6	117	229	362	479	605	736	853	992	1115	1249	1355	Measured Value (mV)
0.80 Error (mV)	29	11	-4	-7	-6	-18	-7	-13	-11	-3	-8	8	8	19	2	Error (mV)
0.80 Limited If Output (dBm)	-17.16	-16.59	-16.34	-16.22	-16.16	-16.16	-16.16	-16.17	-16.18	-16.18	-16.18	-16.18	-16.19	-16.21	-16.25	Limited If Output (dBm)



LIMITED IF OUTPUT MAX -16.05 dBm  
 LIMITED IF OUTPUT MIN -17.47 dBm  
 LIMITED IF FLATNESS ± 0.71 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4351  
 TESTED BY: H. HAHN  
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1898  
 SLOPE (mV/dB) 29.48  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1831  
 SLOPE (mV/dB) 28  
 LIMITED IF OUTPUT (dBm)

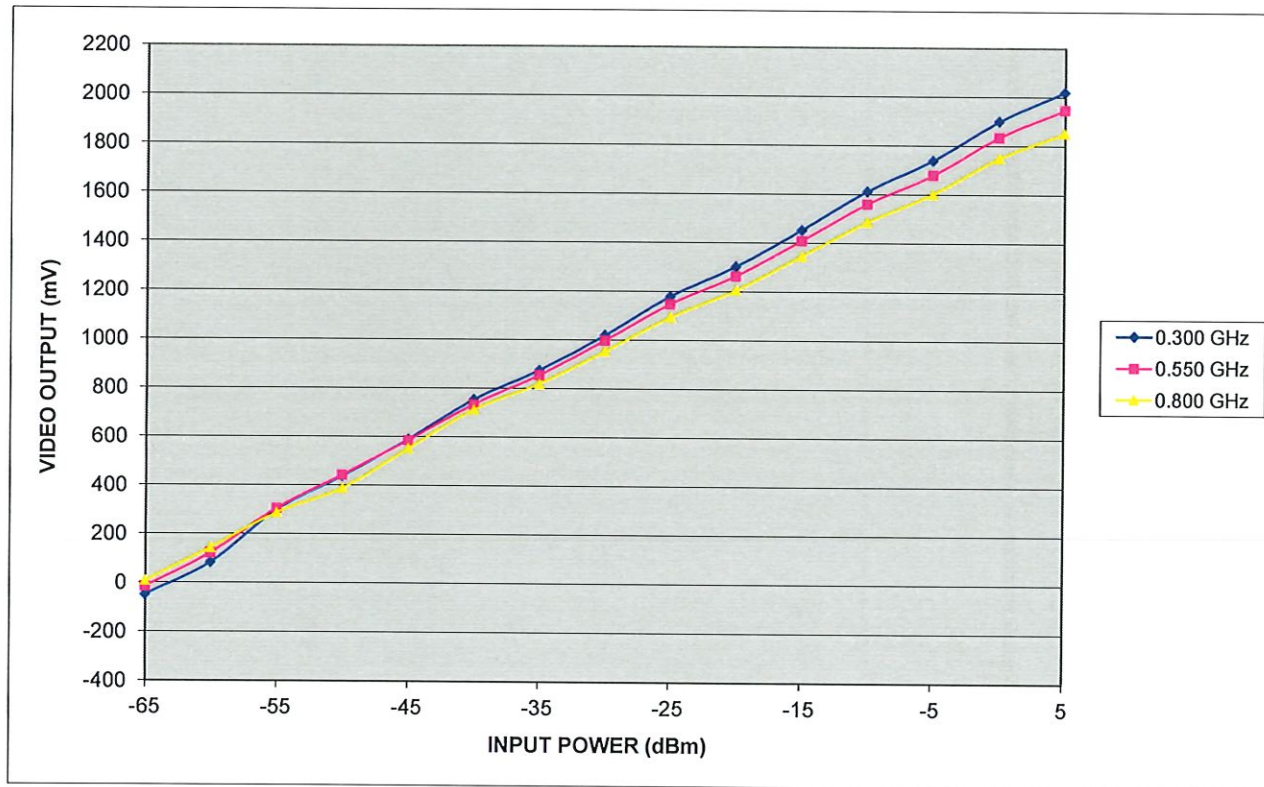
0.80 INTERCEPT (mV) 1742  
 SLOPE (mV/dB) 26.54  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.56  
 LINEARITY(-65 TO +5dBm) ± 1.56  
 FREQUENCY FLATNESS ± 3.37

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-49	83	297	438	589	754	874	1018	1179	1302	1452	1612	1739	1899	2020	Measured Value (mV)
0.30 Error (mV)	-31	-46	21	14	17	35	8	4	18	-7	-4	8	-12	1	-26	Error (mV)
0.30 Measured Value (mV)	-15.75	-15.73	-15.95	-16.02	-16.02	-16.02	-16.05	-16.03	-16.02	-16.04	-16.05	-16.06	-16.08	-16.08	-16.08	Measured Value (mV)
0.55 Measured Value (mV)	-16	122	303	441	584	733	854	997	1148	1263	1410	1560	1679	1835	1947	Measured Value (mV)
0.55 Error (mV)	-27	-29	13	11	14	23	3	6	17	-8	-1	9	-12	4	-24	Error (mV)
0.55 Measured Value (mV)	-15.69	-15.74	-15.80	-15.87	-15.97	-15.98	-15.93	-15.94	-15.98	-16.00	-16.00	-15.99	-15.99	-16.00	-16.01	Measured Value (mV)
0.80 Measured Value (mV)	7	143	286	387	550	711	818	952	1093	1204	1344	1485	1601	1748	1851	Measured Value (mV)
0.80 Error (mV)	-10	-6	4	-27	3	31	5	7	15	-7	1	9	-8	7	-23	Error (mV)
0.80 Measured Value (mV)	-15.67	-15.70	-15.74	-15.80	-15.81	-15.92	-15.91	-15.89	-15.92	-15.93	-15.93	-15.93	-15.93	-15.96	-16.03	Measured Value (mV)

TSS -54C  
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C  
 2.7V MAX 2.66V



LIMITED IF OUTPUT MAX -15.67 dBm  
 LIMITED IF OUTPUT MIN -16.08 dBm  
 LIMITED IF FLATNESS ± 0.21 dBm