

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4315
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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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) 1586
 SLOPE (mV/dB) 27.58
 LIMITED IF OUTPUT (dBm)

-196	-73	67	216	336	483	622	747	901	1030	1165	1321	1449	1602	1714	Measured Value (mV)
10	-5	-2	8	-9	0	1	-12	4	-5	-8	10	1	16	-10	Error (mV)
-16.68	-16.38	-16.28	-16.21	-16.17	-16.13	-16.11	-16.11	-16.10	-16.10	-16.11	-16.12	-16.12	-16.12	-16.12	Measured Value (mV)

0.55 INTERCEPT (mV) 1522
 SLOPE (mV/dB) 26.23
 LIMITED IF OUTPUT (dBm)

-168	-56	77	212	329	472	603	724	872	992	1121	1270	1391	1537	1644	Measured Value (mV)
15	-4	-1	2	-12	0	0	-11	6	-5	-7	11	0	15	-9	Error (mV)
-16.62	-16.40	-16.28	-16.20	-16.12	-16.11	-16.15	-16.16	-16.16	-16.17	-16.18	-16.18	-16.18	-16.19	-16.21	Measured Value (mV)

0.80 INTERCEPT (mV) 1427
 SLOPE (mV/dB) 24.59
 LIMITED IF OUTPUT (dBm)

-151	-43	76	196	303	437	561	675	814	928	1051	1191	1306	1445	1548	Measured Value (mV)
21	6	1	-1	-17	-6	-5	-14	2	-7	-7	10	2	18	-2	Error (mV)
-16.51	-16.32	-16.24	-16.21	-16.17	-16.12	-16.15	-16.17	-16.19	-16.19	-16.19	-16.19	-16.19	-16.21	-16.24	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 0.84
 FREQUENCY FLATNESS ± 3.32

TSS 25C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.06V

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

IF OUTPUT VSWR 2:1 MAX @ 25C
 1.53:1

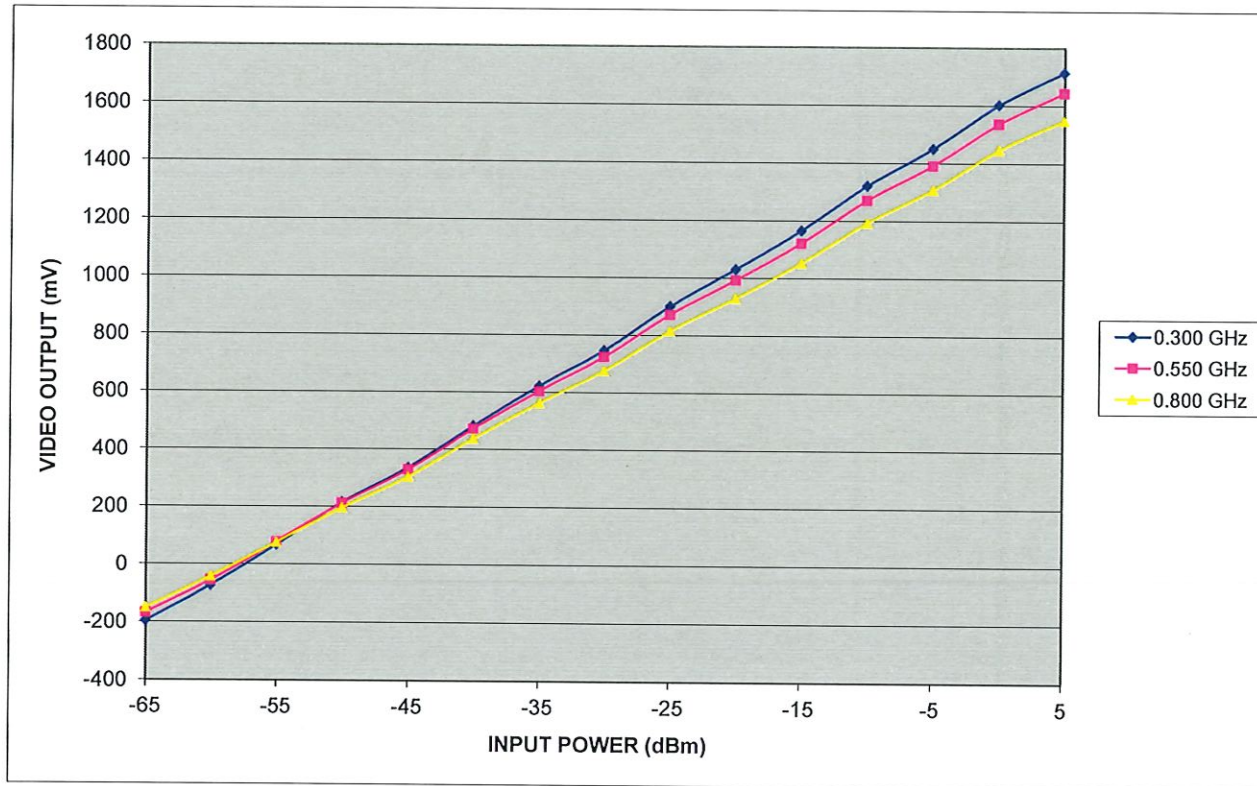
VIDEO RISE TIME 25 nS MAX @ 25C
 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C
 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C
 12 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -16.10 dBm
 LIMITED IF OUTPUT MIN -16.68 dBm
 LIMITED IF FLATNESS ± 0.29 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4315
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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Frequency

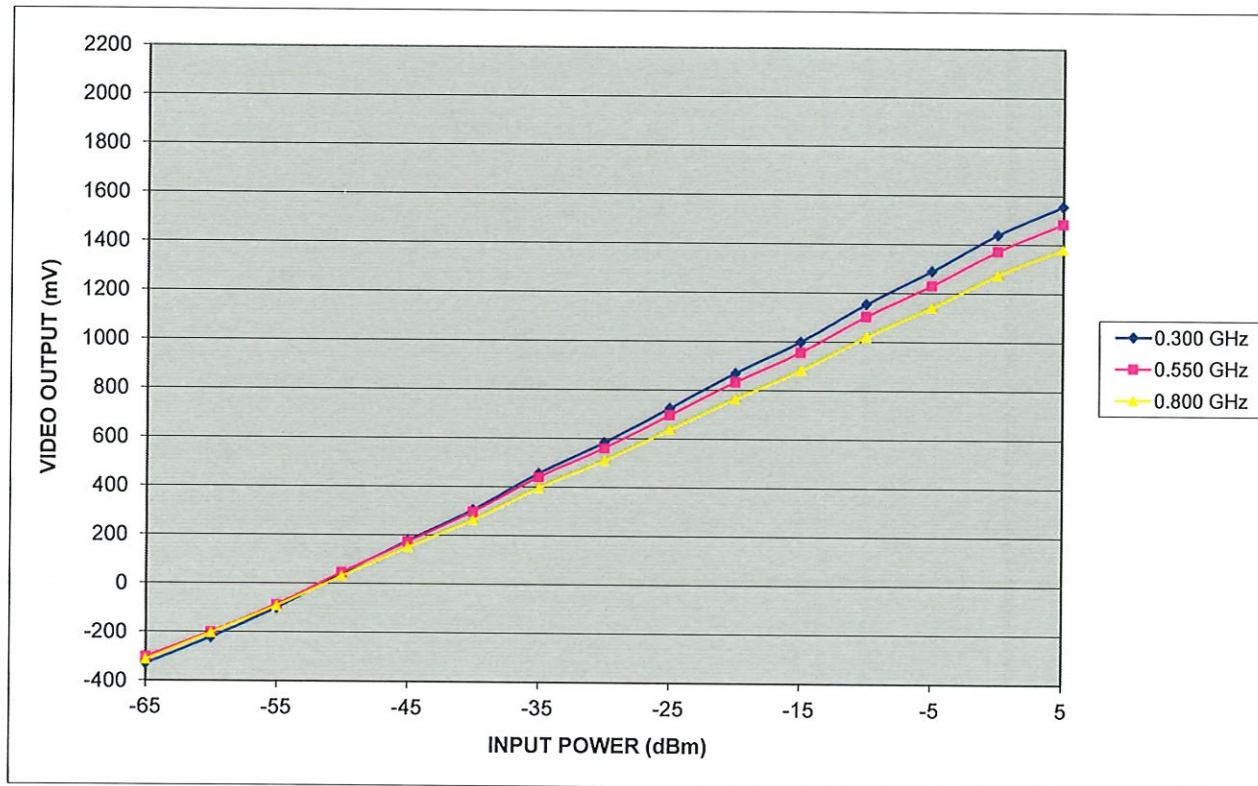
0.30 INTERCEPT (mV) 1419
 SLOPE (mV/dB) 27.45
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1355
 SLOPE (mV/dB) 26.05
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1257
 SLOPE (mV/dB) 24.49
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.71
 LINEARITY(-65 TO +5dBm) ± 1.39
 FREQUENCY FLATNESS ± 3.51

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
0.30 Measured Value (mV)	-329	-223	-101	41	176	305	456	583	726	869	999	1153	1289	1439	1555	Measured Value (mV)	
0.30 Error (mV)	35	5	-10	-6	-8	-16	-3	-13	-7	-1	-9	8	7	19	-1	Error (mV)	
0.30 Limited IF Output (dBm)	-17.06	-16.45	-16.20	-16.08	-16.00	-15.95	-15.92	-15.90	-15.90	-15.90	-15.90	-15.91	-15.91	-15.90	-15.90	Measured Value (mV)	
0.55 Measured Value (mV)	-303	-203	-90	46	172	296	440	560	697	833	955	1103	1230	1373	1485	Measured Value (mV)	
0.55 Error (mV)	36	6	-11	-6	-10	-16	-3	-13	-6	-1	-9	9	6	18	0	Error (mV)	
0.55 Limited IF Output (dBm)	-16.88	-16.45	-16.22	-16.08	-16.00	-15.96	-15.95	-15.96	-15.97	-15.98	-15.99	-15.99	-15.99	-16.01	-16.03	Measured Value (mV)	
0.80 Measured Value (mV)	-314	-204	-93	31	150	263	396	510	637	765	881	1019	1140	1274	1380	Measured Value (mV)	
0.80 Error (mV)	21	8	-3	-2	-5	-15	-4	-13	-7	-3	-9	7	6	17	1	Error (mV)	
0.80 Limited IF Output (dBm)	-16.90	-16.36	-16.14	-16.04	-16.01	-16.00	-16.01	-16.02	-16.02	-16.03	-16.03	-16.03	-16.03	-16.03	-16.05	-16.09	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.90 dBm
 LIMITED IF OUTPUT MIN -17.06 dBm
 LIMITED IF FLATNESS ± 0.58 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4315
 TESTED BY: H. HAHN
 DATE: 4/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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Frequency

0.30 INTERCEPT (mV) 1397
 SLOPE (mV/dB) 27.43
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1332
 SLOPE (mV/dB) 26.01
 LIMITED IF OUTPUT (dBm)

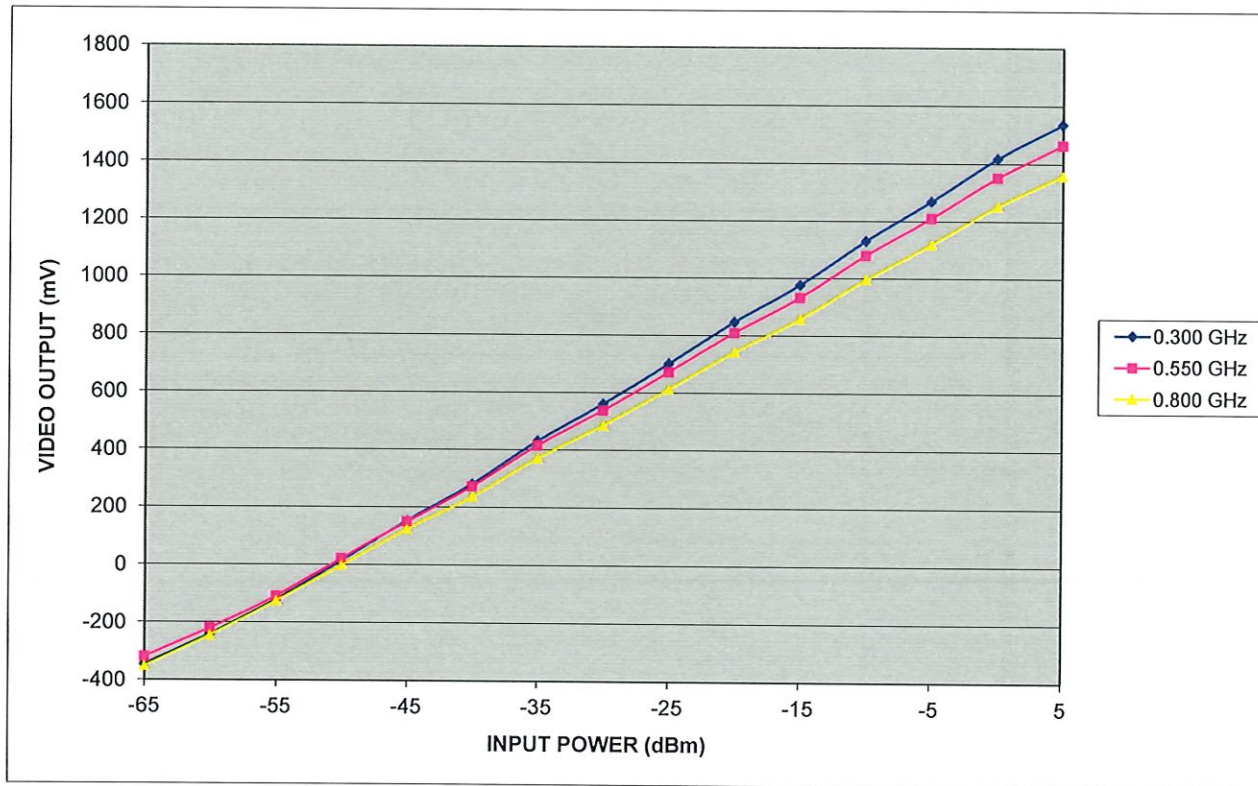
0.80 INTERCEPT (mV) 1236
 SLOPE (mV/dB) 24.72
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.74
 LINEARITY(-65 TO +5dBm) ± 1.48
 FREQUENCY FLATNESS ± 3.56

TSS 95C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 1.93V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-346	-242	-122	16	154	281	431	561	702	847	977	1131	1268	1417	1535	Measured Value (mV)
0.30 Error (mV)	40	7	-10	-10	-9	-19	-5	-13	-9	-1	-9	8	8	20	1	Error (mV)
0.30 Limited If Output (dBm)	-17.22	-16.68	-16.31	-16.17	-16.09	-16.03	-16.00	-15.98	-15.98	-15.98	-15.98	-15.98	-15.98	-15.97	-15.96	Measured Value (mV)
0.55 Measured Value (mV)	-320	-221	-109	23	151	273	416	538	673	810	932	1080	1209	1351	1464	Measured Value (mV)
0.55 Error (mV)	39	8	-10	-8	-10	-18	-5	-13	-8	-1	-9	9	7	19	2	Error (mV)
0.55 Limited If Output (dBm)	-17.03	-16.66	-16.31	-16.17	-16.09	-16.04	-16.03	-16.04	-16.05	-16.06	-16.07	-16.07	-16.08	-16.09	-16.12	Measured Value (mV)
0.80 Measured Value (mV)	-353	-246	-126	-2	124	236	370	486	612	741	857	995	1117	1250	1357	Measured Value (mV)
0.80 Error (mV)	18	1	-3	-2	0	-11	-1	-9	-6	-1	-8	6	5	14	-3	Error (mV)
0.80 Limited If Output (dBm)	-17.27	-16.67	-16.28	-16.14	-16.10	-16.09	-16.10	-16.10	-16.11	-16.11	-16.12	-16.12	-16.13	-16.16	-16.21	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.96 dBm
 LIMITED IF OUTPUT MIN -17.27 dBm
 LIMITED IF FLATNESS ± 0.65 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4315
 TESTED BY: H. HAHN
 DATE: 18/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1873
 SLOPE (mV/dB) 28.58
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1810
 SLOPE (mV/dB) 27.39
 LIMITED IF OUTPUT (dBm)

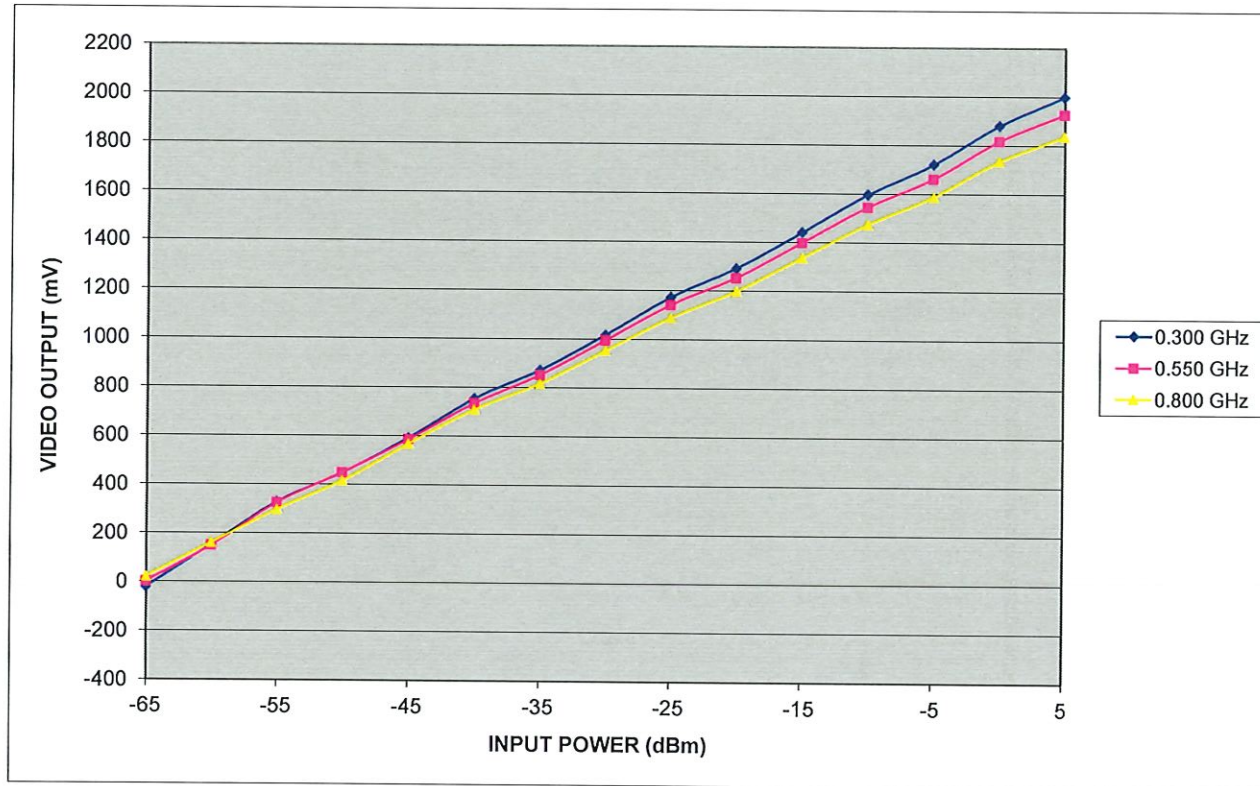
0.80 INTERCEPT (mV) 1726
 SLOPE (mV/dB) 26.01
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.90
 LINEARITY(-65 TO +5dBm) ± 1.31
 FREQUENCY FLATNESS ± 3.27

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-22	151	327	447	592	754	872	1017	1172	1291	1441	1596	1721	1880	1999	Measured Value (mV)
0.30 Error (mV)	-37	-7	26	3	5	24	-1	1	14	-11	-4	9	-10	7	-17	Error (mV)
0.30 Limited If Output (dBm)	-15.63	-15.64	-15.84	-15.89	-15.90	-15.90	-15.93	-15.90	-15.89	-15.91	-15.92	-15.93	-15.94	-15.95	-15.95	Measured Value (mV)
0.55 Measured Value (mV)	1	148	324	448	586	735	862	995	1141	1253	1399	1545	1662	1817	1927	Measured Value (mV)
0.55 Error (mV)	-29	-19	20	7	8	20	0	6	15	-10	-1	9	-11	7	-20	Error (mV)
0.55 Limited If Output (dBm)	-15.58	-15.63	-15.71	-15.76	-15.85	-15.83	-15.78	-15.82	-15.85	-15.87	-15.88	-15.87	-15.86	-15.86	-15.87	Measured Value (mV)
0.80 Measured Value (mV)	19	159	295	414	567	709	815	952	1088	1196	1336	1473	1587	1734	1835	Measured Value (mV)
0.80 Error (mV)	-16	-6	0	-11	12	23	0	7	12	-9	1	8	-8	8	-20	Error (mV)
0.80 Limited If Output (dBm)	-15.55	-15.60	-15.64	-15.68	-15.70	-15.82	-15.79	-15.77	-15.80	-15.82	-15.81	-15.81	-15.80	-15.82	-15.87	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.55 dBm
 LIMITED IF OUTPUT MIN -15.95 dBm
 LIMITED IF FLATNESS ± 0.20 dBm