

# POWER CONVERSION/VSWR CHARTS

POWER CONVERSION CHART

dBm	mW	dBm	mw/Watts	dBm	Watts
-20	0.010	+7	5.010	+34	2.550
-19	0.012	+8	6.300	+35	3.160
-18	0.016	+9	7.940	+36	3.910
-17	0.020	+10	10.00	+37	5.010
-16	0.025	+11	12.60	+38	6.310
-15	0.032	+12	15.80	+39	7.940
-14	0.040	+13	19.90	+40	10.00
-13	0.050	+14	25.10	+41	12.60
-12	0.063	+15	31.60	+42	15.80
-11	0.079	+16	39.80	+43	20.00
-10	0.100	+17	50.10	+44	25.10
-9	0.130	+18	63.10	+45	31.60
-8	0.160	+19	79.40	+46	39.80
-7	0.200	+20	0.100 (W)	+47	50.10
-6	0.250	+21	0.120 (W)	+48	63.10
-5	0.316	+22	0.159 (W)	+49	79.40
-4	0.398	+23	0.200 (W)	+50	100.0
-3	0.501	+24	0.251 (W)	+51	126.0
-2	0.630	+25	0.316 (W)	+52	158.0
-1	0.794	+26	0.398 (W)	+53	200.0
0	1.000	+27	0.501 (W)	+54	251.0
+1	1.250	+28	0.631 (W)	+55	316.0
+2	1.580	+29	0.794 (W)	+56	398.0
+3	2.000	+30	1.000 (W)	+57	501.0
+4	2.510	+31	1.260 (W)	+58	631.0
+5	3.160	+32	1.590 (W)	+59	794.0
+6	3.980	+33	2.000 (W)	+60	1 K

VSWR Chart/Effect on VSWR on Transmitted Power

VSWR	Return Loss (dB)	Trans. Loss (db)	Volt. Refl. COEFF.	Power Refl. (%)	Power Trans. (%)
1.00	∞	0.000	0.00	0.0	100.0
1.01	46.1	0.000	0.00	0.0	100.0
1.02	40.1	0.000	0.01	0.0	100.0
1.03	36.6	0.001	0.01	0.0	100.0
1.04	34.2	0.002	0.02	0.0	100.0
1.05	32.3	0.003	0.02	0.1	99.9
1.06	30.7	0.004	0.03	0.1	99.9
1.07	29.4	0.005	0.03	0.1	99.9
1.08	28.3	0.006	0.04	0.1	99.9
1.09	27.3	0.008	0.04	0.2	99.8
1.10	26.4	0.010	0.05	0.2	99.8
1.11	25.7	0.012	0.05	0.3	99.7
1.12	24.9	0.014	0.06	0.3	99.7
1.13	24.3	0.016	0.06	0.4	99.6
1.14	23.7	0.019	0.07	0.4	99.6
1.15	23.1	0.021	0.07	0.5	99.5
1.16	22.6	0.024	0.07	0.5	99.5
1.17	22.1	0.027	0.08	0.6	99.4
1.18	21.7	0.030	0.08	0.7	99.3
1.19	21.2	0.033	0.09	0.8	99.2
1.20	20.8	0.036	0.09	0.8	99.2
1.25	19.1	0.054	0.11	1.2	98.8
1.30	17.7	0.075	0.13	1.7	98.3
1.40	15.6	0.122	0.17	2.8	97.2
1.50	14.0	0.177	0.20	4.0	96.0
1.60	12.7	0.238	0.23	5.3	94.7
1.70	11.7	0.302	0.26	6.7	93.3
1.80	10.9	0.370	0.29	8.2	91.8
1.90	10.2	0.440	0.31	9.6	90.4
2.00	9.50	0.512	0.33	11.1	88.9
3.00	6.00	1.240	0.50	25.0	75.0
4.00	4.40	1.930	0.60	36.0	64.0
5.00	3.50	2.550	0.67	44.4	55.6
10.0	1.70	4.800	0.82	66.9	33.1
20.0	0.90	7.410	0.90	81.9	18.1