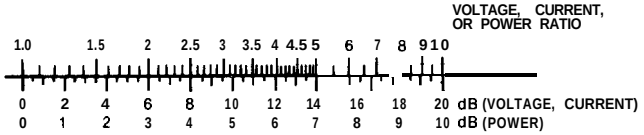
Table of Return Loss versus VSWR (Voltage Standing Wave Ratio)

RETURN LOSS (dB)	VSWR	RETURN LOSS (dB)	VSWR
46.064	1.01	13.842	1.51
40.086	1.02	13.708	1.52
36.607	1.03	13.577	1.53
34.151	1.04	13.449	1.54
32.256	1.05	13.324	1.55
30.714	1.06	13.201	1.56
29.417	1.07	13.081	1.57
28.299	1.08	12.964	1.58
27.318	1.09	12.849	1.59
26.444	1.10	12.736	1.60
25.658	1.11	12.625	1.61
24.943	1.12	12.518	1.62
24.289	1.13	12.412	1.63
23.686	1.14	12.308	1.64
23.127	1.15	12.207	1.65
22.607	1.16	12.107	1.66
22.120	1.17	12.009	1.67
21.664	1.18	11.913	1.68
21.234	1.19	11.818	1.69
20.828	1.20	11.725	1.70
20.443	1.21	11.634	1.71
20.079	1.22	11.545	1.72
19.732	1.23	11.457	1.73
19.401	1.24	11.370	1.74
19.085	1.25	11.285	1.75
18.783	1.26	11.202	1.76
18.493	1.27	11.120	1.77
18.216	1.28	11.039	1.78
17.949	1.29	10.960	1.79
17.690	1.30	10.881	1.80
17.445	1.31	10.804	1.81
17.207	1.32	10.729	1.82
16.977	1.33	10.654	1.83
16.755	1.34	10.581	1.84
16.540	1.35	10.509	1.85
16.332	1.36	10.437	1.86
16.131	1.37	10.367	1.87
15.936	1.38	10.298	1.88
15.747	1.39	10.230	1.89
15.563	1.40	10.163	1.90
15.385	1.41	10.097	1.91
15.211	1.42	10.032	1.92
15.043	1.43	9.968	1.93
14.879	1.44	9.904	1.94
14.719	1.45	9.842	1.95
14.564	1.46	9.780	1.96
14.412	1.47	9.720	1.97
14.264	1.48	9.660	1.98
14.120	1.49	9.601	1.99
13.979	1.50	9.542	2.00

dBm - Volts - Watts Comparison in a 50 Ω matched system

dBm	V	P	dBm	V	P
+53	100.0	200 W	0	.225	1.0 mW
+50	70.7	100 W	-1	.200	.80 mW
+49	64.0	80W	-2	.180	.64 mW
+48	58.0	64 W	-3	.160	.50 mW
+47	50.0	50 W	-4	.141	.40 mW
+46	44.5	4ow	-5	.125	.32 mW
+45	40.0	32W	-6	.115	.25 mW
+44	32.5	25W	-7	.100	.20 mW
+43	32.0	20W	-8	.090	.16 mW
+42	28.0	16W	-9	.080	.125 mW
+41	26.2	12.5 W	-10	.071	.10 mW
+40	22.5	10 W	-11	.064	
+39	20.0	8W	-12	.058	
+38	18.0	6.4 W	-13	.050	
+37	16.0	5w	-14	.045	
+36	14.1	4w	-15	.040	
+35	12.5	3.2 W	-16	.0355	
+34	11.5	2.5 W			
+33	10.0	2w	dBm	mV	
+32	9.0	1.6 W	-17	31.5	
+31	8.0	1.25 W	-18	28.5	
+30	7.10	1.0 w	-19	25.1	
+29	6.40	800 mW	-20	22.5	.01 mW
+28	5.80	640 mW	-21	20.0	
+27	5.00	500 mW	-22	17.9	
+26	4.45	400 mW	-23	15.9	
+25	4.00	320 mW	-24	14.1	
+24	3.55	250 mW	-25	12.8	
+23	3.20	200 mW	-26	11.5	
+22	2.80	160 mW	-27	10.0	
+21	2.52	125 mW	-28	8.9	
+20	2.25	100 mW	-29	8.0	
+19	2.00	80 mW	-30	7.1	.001 mW
+18	1.80	64 mW	-31	6.25	
+17	1.60	50 mW	-32	5.8	
+16	1.41	40 mW	-33	5.0	
+15	1.25	32 mW	-34	4.5	
+14	1.15	25 mW	-35	4.0	
+13	1.00	20 mW	-36	3.5	
+12	.90	16mW	-37	3.2	
+11	.80	12.5 mW	-38	2.85	
+10	.71	10 mW	-39	2.5	
+9	.64	8mW	-40	2.25	1 μW
+8	.58	6.4 mW	-41	2.0	
+7	.500	5mW	-42	1.8	
+6	.445	4mW	-43	1.6	
+5	.400	3.2 mW	-44	1.4	
+4	.355	2.5 mW	-45	1.25	
+3	.320	2.0 mW	-46	1.18	
+2	.280	1.6 mW	-47	1.00	
+1	.252	1.25 mW	-48	0.90	

Volts/Power to dB Nomograph



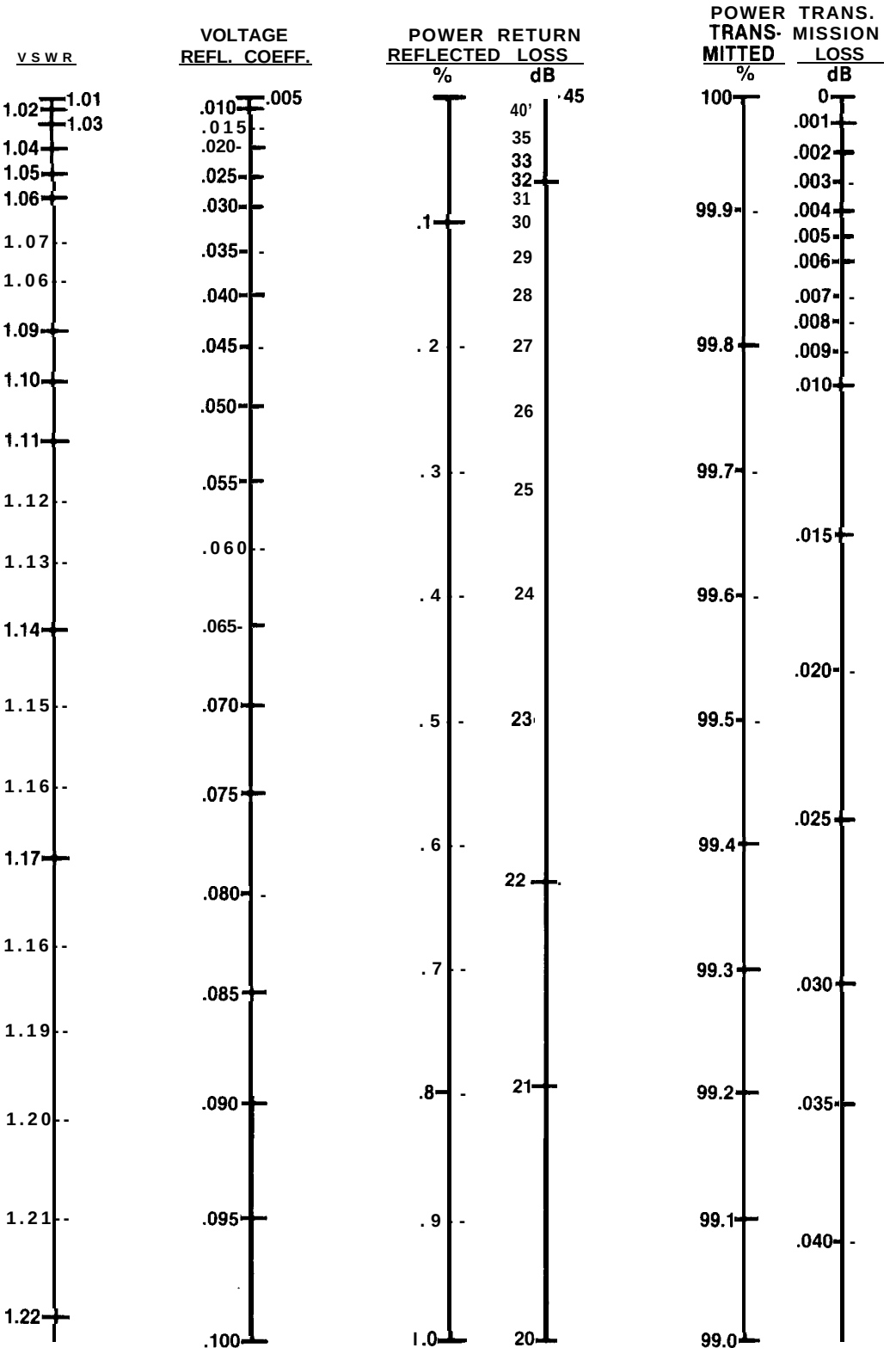
NEW DIRECTIONS

Merrimac

VSWR NOMOGRAPH

VSWR's from 1.01:1 to 1.22:1

HELP



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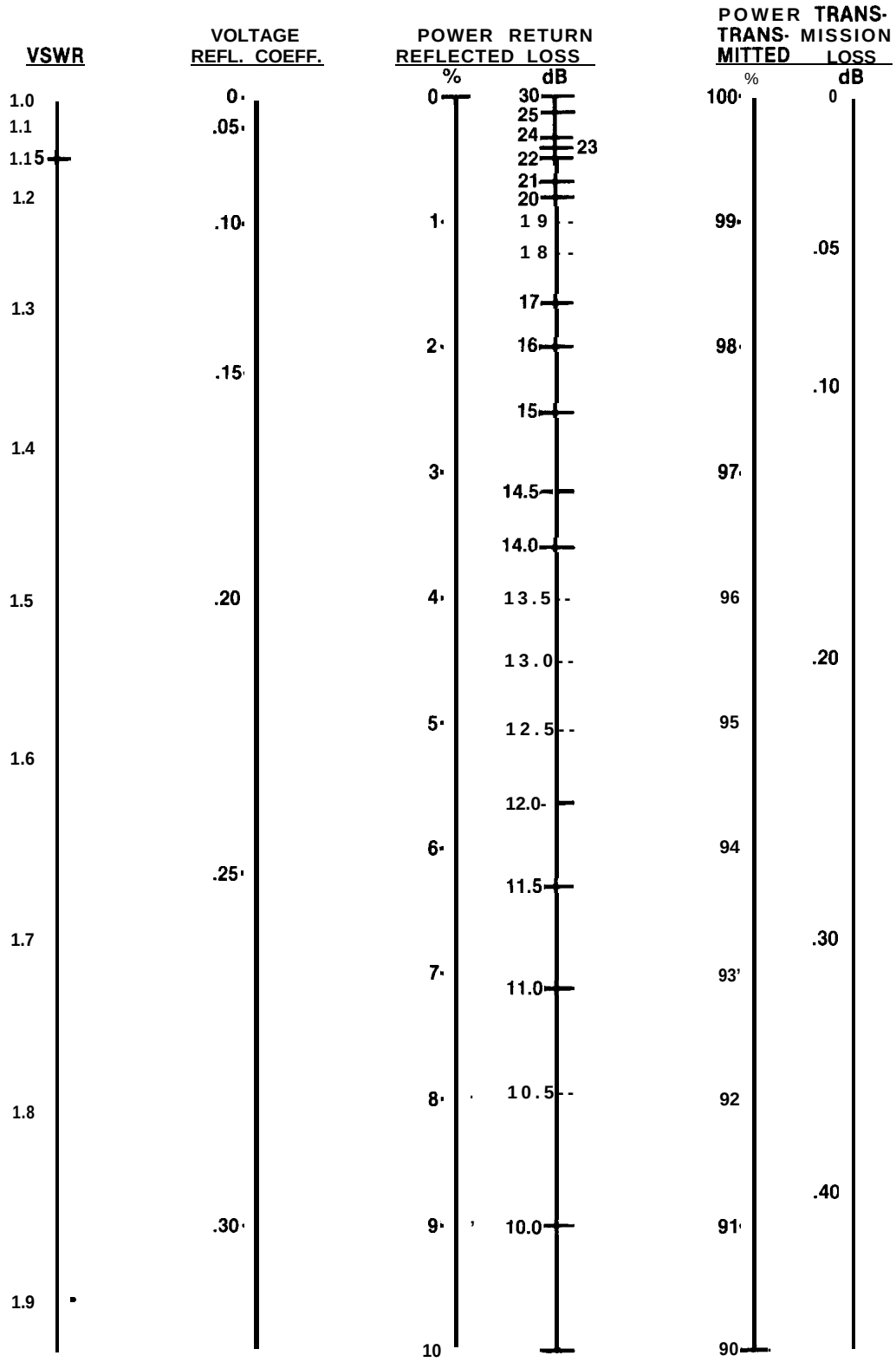
VSWR NOMOGRAPH

VSWR's from 1.1:1 to 1.9:1



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