

# Appendix J

The Effect of VSWR (Typ) on Transmittal Power

VSWR (Typ)	Return Loss (dB)	VSWR (Typ) (dB)	Volt REFL COEFF	XMSN Loss (dB)	Power XMIT (%)	Power REFL (%)
1.006	50.00	0.05	0.00	.0000	100.	0.00
1.01	46.06	0.09	0.00	.0001	100.	0.00
1.011	45.00	0.10	0.01	.0001	100.	0.00
1.02	40.09	0.17	0.01	.0004	99.99	0.01
1.020	40.00	0.17	0.01	.0004	99.99	0.01
1.03	36.61	0.26	0.01	.0009	99.98	0.02
1.036	35.00	0.31	0.02	.0014	99.97	0.03
1.04	34.15	0.34	0.02	.0017	99.96	0.04
1.045	33.15	0.38	0.02	.0021	99.95	0.05
1.05	32.26	0.42	0.02	.0026	99.94	0.06
1.06	30.71	0.51	0.03	.0037	99.92	0.08
1.065	30.00	0.55	0.03	.0043	99.90	0.10
1.07	29.42	0.59	0.03	.0050	99.89	0.11
1.08	28.30	0.67	0.04	.0064	99.85	0.15
1.09	27.32	0.75	0.04	.0081	99.81	0.19
1.10	26.44	0.83	0.05	.0099	99.77	0.23
1.11	25.66	0.91	0.05	.0118	99.73	0.27
1.119	25.00	0.98	0.06	.0138	99.68	0.32
1.12	24.94	0.98	0.06	.0139	99.68	0.32
1.13	24.29	1.06	0.06	.0162	99.63	0.37
1.135	24.00	1.10	0.06	.0173	99.60	0.40
1.14	23.69	1.14	0.07	.0186	99.57	0.43
1.15	23.13	1.21	0.07	.0212	99.51	0.49
1.152	23.00	1.23	0.07	.0212	99.50	0.50
1.16	22.61	1.29	0.07	.0239	99.45	0.55
1.17	22.12	1.36	0.08	.0267	99.39	0.61
1.173	22.00	1.38	0.08	.0275	99.37	0.63
1.18	21.66	1.44	0.08	.0297	99.32	0.68
1.19	21.23	1.51	0.09	.0328	99.25	0.75
1.196	21.00	1.55	0.09	.0346	99.21	0.79
1.20	20.83	1.58	0.09	.0360	99.17	0.83
1.21	20.44	1.66	0.10	.0394	99.10	0.90
1.22	21.08	1.73	0.10	.0429	99.02	0.98
1.222	20.00	1.74	0.10	.0436	99.00	1.00
1.23	19.73	1.80	0.10	.0464	98.94	1.06
1.24	19.40	1.87	0.11	.0501	98.85	1.15
1.25	19.08	1.94	0.11	.0540	98.77	1.23
1.253	19.00	1.96	0.11	.0550	98.74	1.26
1.26	18.78	2.01	0.12	.0579	98.68	1.32
1.27	18.49	2.08	0.12	.0619	98.59	1.41
1.28	18.22	2.14	0.12	.0660	98.49	1.51
1.288	18.00	2.20	0.13	.0694	98.42	1.58
1.29	17.95	2.21	0.13	.0702	98.40	1.60
1.30	17.89	2.28	0.13	.0745	98.30	1.70

VSWR (Typ)	Return Loss (dB)	VSWR (Typ) (dB)	Volt REFL COEFF	XMSN Loss (dB)	Power XMIT (%)	Power REFL (%)
1.31	17.45	2.35	0.13	0.08	98.20	1.80
1.32	17.21	2.41	0.14	0.08	98.10	1.90
1.329	17.00	2.47	0.14	0.09	98.00	2.00
1.33	16.98	2.48	0.14	0.09	97.99	2.01
1.34	16.75	2.54	0.15	0.09	97.89	2.11
1.35	18.54	2.61	0.15	0.10	97.78	2.22
1.36	16.33	2.61	0.15	0.10	97.67	2.33
1.37	16.13	2.73	0.16	0.11	97.56	2.44
1.377	16.00	2.78	0.16	0.11	97.49	2.51
1.38	15.94	2.80	0.16	0.11	97.45	2.55
1.39	15.75	2.86	0.16	0.11	97.49	2.51
1.40	15.56	2.92	0.17	0.12	97.22	2.78
1.41	15.38	2.98	0.17	0.13	97.11	2.89
1.42	15.21	3.05	0.17	0.13	96.99	3.01
1.43	15.04	3.11	0.18	0.14	96.87	3.13
1.433	15.00	3.12	0.18	0.14	96.84	3.16
1.44	14.88	3.17	0.18	0.14	96.75	3.25
1.45	14.72	3.23	0.18	0.15	96.63	3.37
1.46	14.56	3.29	0.19	0.15	96.50	3.50
1.464	14.50	3.31	0.19	0.16	96.45	3.55
1.47	14.41	3.35	0.19	0.16	96.38	3.62
1.48	14.26	3.41	0.19	0.17	96.25	3.75
1.49	14.12	3.46	0.20	0.17	96.13	3.87
1.499	14.00	3.51	0.20	0.18	96.02	3.98
1.50	13.96	3.52	0.20	0.18	96.00	4.00
1.536	13.50	3.73	0.21	0.20	95.53	4.47
1.55	13.32	3.81	0.22	0.21	95.35	4.65
1.577	13.00	3.96	0.22	0.22	94.99	5.01
1.60	12.74	4.08	0.23	0.24	94.67	5.33
1.622	12.50	4.20	0.24	0.25	94.38	5.62
1.65	12.21	4.35	0.25	0.27	93.98	6.02
1.671	12.00	4.46	0.25	0.28	93.69	6.31
1.70	11.73	4.61	0.26	0.30	93.28	6.72
1.725	11.50	4.74	0.27	0.32	92.92	7.08
1.75	11.29	4.86	0.27	0.34	92.56	7.44
1.785	11.00	5.03	0.28	0.36	92.06	7.94
1.80	10.88	5.11	0.29	0.37	91.84	8.16
1.851	10.50	5.35	0.30	0.41	91.09	8.16
1.90	10.16	5.58	0.31	0.44	90.37	9.63
1.925	10.00	5.69	0.32	0.46	90.00	10.00
2.00	9.54	6.02	0.33	0.51	88.89	11.11
2.50	7.36	7.96	0.43	0.88	81.63	18.37
3.00	6.02	9.54	0.50	1.25	75.00	25.00
3.50	5.11	10.88	0.56	1.60	69.14	30.86