

VSWR Conversion Table

① Reflection coefficient = $\frac{VSWR - 1}{VSWR + 1}$ ② Reflection loss (dB) = $20 \log\left(\frac{1}{1 - \Gamma^2}\right)$ ③ Reflection power (%) = $\Gamma^2 \times 100$

④ Transmission power (%) = $(1 - \Gamma^2) \times 100$ ⑤ Transmission loss (dB) = $-10 \log(1 - \Gamma^2)$

VSWR	Reflection coefficient Γ	Reflection loss (dB)	Reflection power (%)	Transmission power (%)	Transmission loss (dB)
1.00	0.0000	∞	0.000	100.000	0.000
1.05	.0244	32.25	0.060	99.940	.003
1.10	.0476	26.45	0.227	99.773	.010
1.15	.0698	23.12	0.487	99.513	.021
1.20	.0909	20.83	0.826	99.174	.036
1.25	.1111	19.09	1.234	98.766	.054
1.30	.1304	17.70	1.700	98.300	.074
1.35	.1489	16.54	2.217	97.783	.097
1.40	.1667	15.56	2.779	97.221	.122
1.45	.1837	14.72	3.375	96.625	.149
1.50	.2000	13.98	4.000	96.000	.177
1.55	.2157	13.32	4.653	95.347	.207
1.60	.2308	12.74	5.327	94.673	.238
1.65	.2453	12.21	6.017	93.983	.269
1.70	.2593	11.73	6.724	93.276	.302
1.75	.2727	11.29	7.437	92.563	.336
1.80	.2857	10.88	8.162	91.838	.370
1.85	.2982	10.51	8.892	91.108	.404
1.90	.3103	10.16	9.629	90.371	.440
1.95	.3220	9.84	10.37	89.63	.475
2.00	.3333	9.54	11.11	88.89	.511
2.05	.3443	9.26	11.85	88.15	.548
2.10	.3548	8.98	12.66	87.34	.584
2.15	.3651	8.75	13.33	86.67	.621
2.20	.3750	8.52	14.06	85.94	.658
2.25	.3846	8.30	14.19	85.21	.695
2.30	.3936	8.09	15.52	84.48	.732
2.35	.4030	7.89	16.24	83.76	.770
2.40	.4118	7.71	16.96	83.04	.807
2.45	.4203	7.53	17.67	82.33	.844
2.50	.4386	7.36	18.37	81.63	.882

VSWR	Reflection coefficient Γ	Reflection loss (dB)	Reflection power (%)	Transmission power (%)	Transmission loss (dB)
2.55	0.4366	7.20	19.06	80.94	0.918
2.60	.4444	7.04	19.75	80.25	.956
2.65	.4521	6.90	20.44	79.56	.993
2.70	.4595	6.76	21.11	78.89	1.030
2.75	.4667	6.62	21.78	78.22	1.067
2.80	.4737	6.49	22.44	77.56	1.104
2.85	.4805	6.37	23.09	76.91	1.140
2.90	.4872	6.25	23.74	76.26	1.177
2.95	.4937	6.13	24.37	75.63	1.213
3.00	.5000	6.02	25.00	75.00	1.250
3.05	.5062	5.91	25.62	74.38	1.285
3.10	.5122	5.81	26.23	73.77	1.321
3.15	.5181	5.71	26.84	73.16	1.357
3.20	.5238	5.62	27.44	72.56	1.393
3.25	.5294	5.52	28.03	71.97	1.429
3.30	.5349	5.43	28.61	71.39	1.464
3.35	.5402	5.35	29.18	70.82	1.498
3.40	.5455	5.26	29.76	70.24	1.534
3.45	.5506	5.18	30.32	69.68	1.569
3.50	.5556	5.10	30.87	69.13	1.603
3.55	.5604	5.03	31.40	68.60	1.637
3.60	.5652	4.96	31.95	68.05	1.672
3.65	.5699	4.88	32.48	67.52	1.706
3.70	.5745	4.81	33.01	66.99	1.740
3.75	.5789	4.75	33.51	66.49	1.772
3.80	.5833	4.68	34.03	65.97	1.807
3.85	.5876	4.62	34.53	65.47	1.840
3.90	.5918	4.56	35.02	64.98	1.872
3.95	.5960	4.50	35.52	64.48	1.906
4.00	.6000	4.44	36.00	64.00	1.938