

VSWR to Return Loss Conversion Table

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Reflected power	VSWR	Return loss	Reflection coefficient
0%	1:1	∞ dB	0
1%	1.222:1	20 dB	0.1
2%	1.329:1	16.99 dB	0.141
3%	1.419:1	15.229 dB	0.173
4%	1.5:1	13.979 dB	0.2
5%	1.576:1	13.01 dB	0.224
6%	1.649:1	12.218 dB	0.245
7%	1.72:1	11.549 dB	0.265
8%	1.789:1	10.969 dB	0.283
9%	1.857:1	10.458 dB	0.3
10%	1.925:1	10 dB	0.316
11%	1.992:1	9.586 dB	0.332
12%	2.06:1	9.208 dB	0.346
13%	2.128:1	8.861 dB	0.361
14%	2.196:1	8.539 dB	0.374
15%	2.264:1	8.239 dB	0.387
16%	2.333:1	7.959 dB	0.4
17%	2.403:1	7.696 dB	0.412
18%	2.474:1	7.447 dB	0.424
19%	2.545:1	7.212 dB	0.436
20%	2.618:1	6.99 dB	0.447
21%	2.692:1	6.778 dB	0.458
22%	2.767:1	6.576 dB	0.469
23%	2.843:1	6.383 dB	0.48
24%	2.921:1	6.198 dB	0.49
25%	3:1	6.021 dB	0.5
26%	3.081:1	5.85 dB	0.51
27%	3.163:1	5.686 dB	0.52
28%	3.248:1	5.528 dB	0.529
29%	3.334:1	5.376 dB	0.539
30%	3.422:1	5.229 dB	0.548
31%	3.512:1	5.086 dB	0.557
32%	3.605:1	4.949 dB	0.566
33%	3.7:1	4.815 dB	0.574

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34%	3.797:1	4.685 dB	0.583
35%	3.897:1	4.559 dB	0.592
36%	4:1	4.437 dB	0.6
37%	4.106:1	4.318 dB	0.608
38%	4.214:1	4.202 dB	0.616
39%	4.326:1	4.089 dB	0.624
40%	4.442:1	3.979 dB	0.632
41%	4.56:1	3.872 dB	0.64
42%	4.683:1	3.768 dB	0.648
43%	4.81:1	3.665 dB	0.656
44%	4.94:1	3.565 dB	0.663
45%	5.076:1	3.468 dB	0.671
46%	5.216:1	3.372 dB	0.678
47%	5.361:1	3.279 dB	0.686
48%	5.511:1	3.188 dB	0.693
49%	5.667:1	3.098 dB	0.7
50%	5.828:1	3.01 dB	0.707
51%	5.997:1	2.924 dB	0.714
52%	6.171:1	2.84 dB	0.721
53%	6.353:1	2.757 dB	0.728
54%	6.543:1	2.676 dB	0.735
55%	6.741:1	2.596 dB	0.742
56%	6.947:1	2.518 dB	0.748
57%	7.163:1	2.441 dB	0.755
58%	7.388:1	2.366 dB	0.762
59%	7.625:1	2.291 dB	0.768
60%	7.873:1	2.218 dB	0.775
61%	8.133:1	2.147 dB	0.781
62%	8.407:1	2.076 dB	0.787
63%	8.696:1	2.007 dB	0.794
64%	9:1	1.938 dB	0.8
65%	9.321:1	1.871 dB	0.806
66%	9.661:1	1.805 dB	0.812
67%	10.021:1	1.739 dB	0.819

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68%	10.404:1	1.675 dB	0.825
69%	10.811:1	1.612 dB	0.831
70%	11.244:1	1.549 dB	0.837
71%	11.708:1	1.487 dB	0.843
72%	12.204:1	1.427 dB	0.849
73%	12.736:1	1.367 dB	0.854
74%	13.309:1	1.308 dB	0.86
75%	13.928:1	1.249 dB	0.866
76%	14.598:1	1.192 dB	0.872
77%	15.326:1	1.135 dB	0.877
78%	16.12:1	1.079 dB	0.883
79%	16.989:1	1.024 dB	0.889
80%	17.944:1	0.969 dB	0.894
81%	19:1	0.915 dB	0.9
82%	20.173:1	0.862 dB	0.906
83%	21.483:1	0.809 dB	0.911
84%	22.956:1	0.757 dB	0.917
85%	24.626:1	0.706 dB	0.922
86%	26.534:1	0.655 dB	0.927
87%	28.734:1	0.605 dB	0.933
88%	31.301:1	0.555 dB	0.938
89%	34.335:1	0.506 dB	0.943
90%	37.974:1	0.458 dB	0.949
91%	42.421:1	0.41 dB	0.954
92%	47.979:1	0.362 dB	0.959
93%	55.125:1	0.315 dB	0.964
94%	64.651:1	0.269 dB	0.97
95%	77.987:1	0.223 dB	0.975
96%	97.99:1	0.177 dB	0.98
97%	131.326:1	0.132 dB	0.985
98%	197.995:1	0.088 dB	0.99
99%	397.997:1	0.044 dB	0.995
100%	∞:1	0 dB	1