



# VSWR, Return Loss and Transmission Loss vs. Transmitted Power

V2.00

| VSWR | RETURN LOSS (dB) | TRANS LOSS (dB) | VOLT REFL COEFF. | POWER TRANS. (%) | POWER REFL (%) | VSWR  | RETURN LOSS (dB) | TRANS LOSS (dB) | VOLT. REFL COEFF. | POWER TRANS. (%) | POWER REFL (%) |
|------|------------------|-----------------|------------------|------------------|----------------|-------|------------------|-----------------|-------------------|------------------|----------------|
| 1.00 | ∞                | .000            | .00              | 100.0            | .0             | 1.64  | 12.3             | .263            | .24               | 94.1             | 5.9            |
| 1.01 | 46.1             | .000            | .00              | 100.0            | .0             | 1.66  | 12.1             | .276            | .25               | 93.8             | 6.2            |
| 1.02 | 40.1             | .000            | .01              | 100.0            | .0             | 1.68  | 11.9             | .289            | .25               | 93.6             | 6.4            |
| 1.03 | 36.6             | .001            | .01              | 100.0            | .0             | 1.70  | 11.7             | .302            | .26               | 93.3             | 6.7            |
| 1.04 | 34.2             | .002            | .02              | 100.0            | .0             | 1.72  | 11.5             | .315            | .26               | 93.0             | 7.0            |
| 1.05 | 32.3             | .003            | .02              | 99.9             | .1             | 1.74  | 11.4             | .329            | .27               | 92.7             | 7.3            |
| 1.06 | 30.7             | .004            | .03              | 99.9             | .1             | 1.76  | 11.2             | .342            | .28               | 92.4             | 7.6            |
| 1.07 | 29.4             | .005            | .03              | 99.9             | .1             | 1.78  | 11.0             | .356            | .28               | 92.1             | 7.9            |
| 1.08 | 28.3             | .006            | .04              | 99.9             | .1             | 1.80  | 10.9             | .370            | .29               | 91.8             | 8.2            |
| 1.09 | 27.3             | .008            | .04              | 99.8             | .2             | 1.82  | 10.7             | .384            | .29               | 91.5             | 8.5            |
| 1.10 | 26.4             | .010            | .05              | 99.8             | .2             | 1.84  | 10.6             | .398            | .30               | 91.3             | 8.7            |
| 1.11 | 25.7             | .012            | .05              | 99.7             | .3             | 1.86  | 10.4             | .412            | .30               | 91.0             | 9.0            |
| 1.12 | 24.9             | .014            | .06              | 99.7             | .3             | 1.88  | 10.3             | .426            | .31               | 90.7             | 9.3            |
| 1.13 | 24.3             | .016            | .06              | 99.6             | .4             | 1.90  | 10.2             | .440            | .31               | 90.4             | 9.6            |
| 1.14 | 23.7             | .019            | .07              | 99.6             | .4             | 1.92  | 10.0             | .454            | .32               | 90.1             | 8.9            |
| 1.15 | 23.1             | .021            | .07              | 99.5             | .5             | 1.94  | 9.9              | .468            | .32               | 89.8             | 10.2           |
| 1.16 | 22.6             | .024            | .07              | 99.5             | .5             | 1.96  | 9.8              | .483            | .32               | 89.5             | 10.5           |
| 1.17 | 22.1             | .027            | .08              | 99.4             | .6             | 1.98  | 9.7              | .497            | .33               | 89.2             | 10.8           |
| 1.18 | 21.7             | .030            | .08              | 99.3             | .7             | 2.00  | 9.5              | .512            | .33               | 88.9             | 11.1           |
| 1.19 | 21.2             | .033            | .09              | 99.2             | .8             | 2.50  | 7.4              | .881            | .43               | 81.6             | 18.4           |
| 1.20 | 20.8             | .036            | .09              | 99.2             | .8             | 3.00  | 6.0              | 1.249           | .50               | 75.0             | 25.0           |
| 1.21 | 20.4             | .039            | .10              | 99.1             | .9             | 3.50  | 5.1              | 1.603           | .56               | 69.1             | 30.9           |
| 1.22 | 20.1             | .043            | .10              | 99.0             | 1.0            | 4.00  | 4.4              | 1.938           | .60               | 64.0             | 36.0           |
| 1.23 | 19.7             | .046            | .10              | 98.9             | 1.1            | 4.50  | 3.9              | 2.255           | .64               | 59.5             | 40.5           |
| 1.24 | 19.4             | .050            | .11              | 98.9             | 1.1            | 5.00  | 3.5              | 2.553           | .67               | 55.6             | 44.4           |
| 1.25 | 19.1             | .054            | .11              | 98.8             | 1.2            | 5.50  | 3.2              | 2.834           | .69               | 52.1             | 47.9           |
| 1.26 | 18.8             | .058            | .12              | 98.7             | 1.3            | 6.00  | 2.9              | 3.100           | .71               | 49.0             | 51.0           |
| 1.27 | 18.5             | .062            | .12              | 98.6             | 1.4            | 6.50  | 2.7              | 3.351           | .73               | 46.2             | 53.8           |
| 1.28 | 18.2             | .066            | .12              | 98.5             | 1.5            | 7.00  | 2.5              | 3.590           | .75               | 43.7             | 56.2           |
| 1.29 | 17.9             | .070            | .13              | 98.4             | 1.6            | 7.50  | 2.3              | 3.817           | .76               | 41.5             | 58.5           |
| 1.30 | 17.7             | .075            | .13              | 98.3             | 1.7            | 8.00  | 2.2              | 4.033           | .78               | 39.5             | 60.5           |
| 1.32 | 17.2             | .083            | .14              | 98.1             | 1.9            | 8.50  | 2.1              | 4.240           | .79               | 37.7             | 62.3           |
| 1.34 | 16.8             | .093            | .15              | 97.9             | 2.1            | 9.00  | 1.9              | 4.437           | .80               | 36.0             | 64.0           |
| 1.36 | 16.3             | .102            | .15              | 97.7             | 2.3            | 9.50  | 1.8              | 4.626           | .81               | 34.5             | 65.5           |
| 1.38 | 15.9             | .112            | .16              | 97.5             | 2.5            | 10.00 | 1.7              | 4.807           | .82               | 33.1             | 66.9           |
| 1.40 | 15.6             | .122            | .17              | 97.2             | 2.8            | 11.00 | 1.6              | 5.149           | .83               | 30.6             | 69.4           |
| 1.42 | 15.2             | .133            | .17              | 97.0             | 3.0            | 12.00 | 1.5              | 5.466           | .85               | 28.4             | 71.6           |
| 1.44 | 14.9             | .144            | .18              | 96.7             | 3.3            | 13.00 | 1.3              | 5.762           | .86               | 26.5             | 73.5           |
| 1.46 | 14.6             | .155            | .19              | 96.5             | 3.5            | 14.00 | 1.2              | 6.040           | .87               | 24.9             | 75.1           |
| 1.48 | 14.3             | .166            | .19              | 96.3             | 3.7            | 15.00 | 1.2              | 6.301           | .88               | 23.4             | 76.6           |
| 1.50 | 14.0             | .177            | .20              | 96.0             | 4.0            | 16.00 | 1.1              | 6.547           | .88               | 22.1             | 77.9           |
| 1.52 | 13.7             | .189            | .21              | 95.7             | 4.3            | 17.00 | 1.0              | 6.780           | .89               | 21.0             | 79.0           |
| 1.54 | 13.4             | .201            | .21              | 95.5             | 4.5            | 18.00 | 1.0              | 7.002           | .89               | 19.9             | 80.1           |
| 1.56 | 13.2             | .213            | .22              | 95.2             | 4.8            | 19.00 | .9               | 7.212           | .90               | 19.0             | 81.0           |
| 1.58 | 13.0             | .225            | .22              | 94.9             | 5.1            | 20.00 | .9               | 7.413           | .90               | 18.1             | 81.9           |
| 1.60 | 12.7             | .238            | .23              | 94.7             | 5.3            | 25.00 | .7               | 8.299           | .92               | 14.8             | 85.2           |
|      | 12.5             | .250            | .24              | 94.4             | 5.6            | 30.00 | .6               | 9.035           | .94               | 12.5             | 87.5           |

