

9 3/16" 50 Ohm Rigid Coaxial Transmission Line, FM Ratings and Efficiency in Percent

| Freq. MHz | ATTEN. in dB/100 ft | Average Power (Kilowatts) | 250 ft | 500 ft | 750 ft | 1000 ft | 1250 ft | 1500 ft | 1750 ft | 2000 ft |
|-----------|---------------------|---------------------------|--------|--------|--------|---------|---------|---------|---------|---------|
| 88.1 | 0.03019 | 397.772 | 98.28 | 96.58 | 94.92 | 93.28 | 91.68 | 90.10 | 88.54 | 87.02 |
| 88.3 | 0.03023 | 397.321 | 98.28 | 96.58 | 94.91 | 93.28 | 91.67 | 90.09 | 88.53 | 87.01 |
| 88.5 | 0.03026 | 396.872 | 98.27 | 96.58 | 94.91 | 93.27 | 91.66 | 90.08 | 88.52 | 86.99 |
| 88.7 | 0.03030 | 396.424 | 98.27 | 96.57 | 94.90 | 93.26 | 91.65 | 90.07 | 88.51 | 86.98 |
| 88.9 | 0.03033 | 395.978 | 98.27 | 96.57 | 94.90 | 93.25 | 91.64 | 90.05 | 88.50 | 86.96 |
| 89.1 | 0.03036 | 395.534 | 98.27 | 96.56 | 94.89 | 93.25 | 91.63 | 90.04 | 88.48 | 86.95 |
| 89.3 | 0.03040 | 395.090 | 98.27 | 96.56 | 94.89 | 93.24 | 91.62 | 90.03 | 88.47 | 86.94 |
| 89.5 | 0.03043 | 394.649 | 98.26 | 96.56 | 94.88 | 93.23 | 91.61 | 90.02 | 88.46 | 86.92 |
| 89.7 | 0.03047 | 394.209 | 98.26 | 96.55 | 94.87 | 93.23 | 91.60 | 90.01 | 88.45 | 86.91 |
| 89.9 | 0.03050 | 393.770 | 98.26 | 96.55 | 94.87 | 93.22 | 91.60 | 90.00 | 88.44 | 86.90 |
| 90.1 | 0.03053 | 393.333 | 98.26 | 96.55 | 94.86 | 93.21 | 91.59 | 89.99 | 88.42 | 86.88 |
| 90.3 | 0.03057 | 392.897 | 98.26 | 96.54 | 94.86 | 93.20 | 91.58 | 89.98 | 88.41 | 86.87 |
| 90.5 | 0.03060 | 392.462 | 98.25 | 96.54 | 94.85 | 93.20 | 91.57 | 89.97 | 88.40 | 86.86 |
| 90.7 | 0.03064 | 392.029 | 98.25 | 96.53 | 94.85 | 93.19 | 91.56 | 89.96 | 88.39 | 86.84 |
| 90.9 | 0.03067 | 391.598 | 98.25 | 96.53 | 94.84 | 93.18 | 91.55 | 89.95 | 88.37 | 86.83 |
| 91.1 | 0.03070 | 391.168 | 98.25 | 96.53 | 94.84 | 93.17 | 91.54 | 89.94 | 88.36 | 86.81 |
| 91.3 | 0.03074 | 390.739 | 98.25 | 96.52 | 94.83 | 93.17 | 91.53 | 89.93 | 88.35 | 86.80 |
| 91.5 | 0.03077 | 390.312 | 98.24 | 96.52 | 94.82 | 93.16 | 91.52 | 89.92 | 88.34 | 86.79 |
| 91.7 | 0.03080 | 389.886 | 98.24 | 96.52 | 94.82 | 93.15 | 91.52 | 89.91 | 88.33 | 86.77 |
| 91.9 | 0.03084 | 389.461 | 98.24 | 96.51 | 94.81 | 93.15 | 91.51 | 89.90 | 88.32 | 86.76 |
| 92.1 | 0.03087 | 389.038 | 98.24 | 96.51 | 94.81 | 93.14 | 91.50 | 89.89 | 88.30 | 86.75 |
| 92.3 | 0.03090 | 388.617 | 98.24 | 96.50 | 94.80 | 93.13 | 91.49 | 89.88 | 88.29 | 86.73 |
| 92.5 | 0.03094 | 388.196 | 98.23 | 96.50 | 94.80 | 93.12 | 91.48 | 89.87 | 88.28 | 86.72 |
| 92.7 | 0.03097 | 387.777 | 98.23 | 96.50 | 94.79 | 93.12 | 91.47 | 89.86 | 88.27 | 86.71 |
| 92.9 | 0.03100 | 387.360 | 98.23 | 96.49 | 94.79 | 93.11 | 91.46 | 89.84 | 88.26 | 86.69 |
| 93.1 | 0.03104 | 386.943 | 98.23 | 96.49 | 94.78 | 93.10 | 91.45 | 89.83 | 88.24 | 86.68 |
| 93.3 | 0.03107 | 386.528 | 98.23 | 96.49 | 94.78 | 93.10 | 91.45 | 89.82 | 88.23 | 86.67 |
| 93.5 | 0.03110 | 386.115 | 98.23 | 96.48 | 94.77 | 93.09 | 91.44 | 89.81 | 88.22 | 86.65 |
| 93.7 | 0.03114 | 385.703 | 98.22 | 96.48 | 94.76 | 93.08 | 91.43 | 89.80 | 88.21 | 86.64 |
| 93.9 | 0.03117 | 385.292 | 98.22 | 96.47 | 94.76 | 93.07 | 91.42 | 89.79 | 88.20 | 86.63 |
| 94.1 | 0.03120 | 384.882 | 98.22 | 96.47 | 94.75 | 93.07 | 91.41 | 89.78 | 88.18 | 86.61 |
| 94.3 | 0.03124 | 384.474 | 98.22 | 96.47 | 94.75 | 93.06 | 91.40 | 89.77 | 88.17 | 86.60 |
| 94.5 | 0.03127 | 384.066 | 98.22 | 96.46 | 94.74 | 93.05 | 91.39 | 89.76 | 88.16 | 86.59 |
| 94.7 | 0.03130 | 383.661 | 98.21 | 96.46 | 94.74 | 93.05 | 91.38 | 89.75 | 88.15 | 86.58 |
| 94.9 | 0.03134 | 383.256 | 98.21 | 96.46 | 94.73 | 93.04 | 91.38 | 89.74 | 88.14 | 86.56 |
| 95.1 | 0.03137 | 382.853 | 98.21 | 96.45 | 94.73 | 93.03 | 91.37 | 89.73 | 88.13 | 86.55 |
| 95.3 | 0.03140 | 382.451 | 98.21 | 96.45 | 94.72 | 93.02 | 91.36 | 89.72 | 88.11 | 86.54 |
| 95.5 | 0.03144 | 382.050 | 98.21 | 96.45 | 94.72 | 93.02 | 91.35 | 89.71 | 88.10 | 86.52 |
| 95.7 | 0.03147 | 381.651 | 98.20 | 96.44 | 94.71 | 93.01 | 91.34 | 89.70 | 88.09 | 86.51 |
| 95.9 | 0.03150 | 381.253 | 98.20 | 96.44 | 94.71 | 93.00 | 91.33 | 89.69 | 88.08 | 86.50 |
| 96.1 | 0.03153 | 380.856 | 98.20 | 96.43 | 94.70 | 93.00 | 91.32 | 89.68 | 88.07 | 86.48 |
| 96.3 | 0.03157 | 380.460 | 98.20 | 96.43 | 94.69 | 92.99 | 91.31 | 89.67 | 88.06 | 86.47 |
| 96.5 | 0.03160 | 380.066 | 98.20 | 96.43 | 94.69 | 92.98 | 91.31 | 89.66 | 88.04 | 86.46 |
| 96.7 | 0.03163 | 379.672 | 98.20 | 96.42 | 94.68 | 92.98 | 91.30 | 89.65 | 88.03 | 86.44 |
| 96.9 | 0.03167 | 379.280 | 98.19 | 96.42 | 94.68 | 92.97 | 91.29 | 89.64 | 88.02 | 86.43 |
| 97.1 | 0.03170 | 378.890 | 98.19 | 96.42 | 94.67 | 92.96 | 91.28 | 89.63 | 88.01 | 86.42 |
| 97.3 | 0.03173 | 378.500 | 98.19 | 96.41 | 94.67 | 92.95 | 91.27 | 89.62 | 88.00 | 86.41 |
| 97.5 | 0.03176 | 378.112 | 98.19 | 96.41 | 94.66 | 92.95 | 91.26 | 89.61 | 87.99 | 86.39 |
| 97.7 | 0.03180 | 377.724 | 98.19 | 96.41 | 94.66 | 92.94 | 91.25 | 89.60 | 87.97 | 86.38 |
| 97.9 | 0.03183 | 377.338 | 98.18 | 96.40 | 94.65 | 92.93 | 91.25 | 89.59 | 87.96 | 86.37 |

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|-----------|---------------------|---------------------------|--------|--------|--------|---------|---------|---------|---------|---------|
| 98.1 | 0.03186 | 376.953 | 98.18 | 96.40 | 94.65 | 92.93 | 91.24 | 89.58 | 87.95 | 86.35 |
| 98.3 | 0.03189 | 376.570 | 98.18 | 96.39 | 94.64 | 92.92 | 91.23 | 89.57 | 87.94 | 86.34 |
| 98.5 | 0.03193 | 376.187 | 98.18 | 96.39 | 94.64 | 92.91 | 91.22 | 89.56 | 87.93 | 86.33 |
| 98.7 | 0.03196 | 375.806 | 98.18 | 96.39 | 94.63 | 92.91 | 91.21 | 89.55 | 87.92 | 86.31 |
| 98.9 | 0.03199 | 375.426 | 98.18 | 96.38 | 94.63 | 92.90 | 91.20 | 89.54 | 87.91 | 86.30 |
| 99.1 | 0.03202 | 375.047 | 98.17 | 96.38 | 94.62 | 92.89 | 91.20 | 89.53 | 87.89 | 86.29 |
| 99.3 | 0.03205 | 374.669 | 98.17 | 96.38 | 94.61 | 92.88 | 91.19 | 89.52 | 87.88 | 86.28 |
| 99.5 | 0.03209 | 374.292 | 98.17 | 96.37 | 94.61 | 92.88 | 91.18 | 89.51 | 87.87 | 86.26 |
| 99.7 | 0.03212 | 373.917 | 98.17 | 96.37 | 94.60 | 92.87 | 91.17 | 89.50 | 87.86 | 86.25 |
| 99.9 | 0.03215 | 373.542 | 98.17 | 96.37 | 94.60 | 92.86 | 91.16 | 89.49 | 87.85 | 86.24 |
| 100.1 | 0.03218 | 373.169 | 98.16 | 96.36 | 94.59 | 92.86 | 91.15 | 89.48 | 87.84 | 86.22 |
| 100.3 | 0.03222 | 372.796 | 98.16 | 96.36 | 94.59 | 92.85 | 91.14 | 89.47 | 87.83 | 86.21 |
| 100.5 | 0.03225 | 372.425 | 98.16 | 96.36 | 94.58 | 92.84 | 91.14 | 89.46 | 87.81 | 86.20 |
| 100.7 | 0.03228 | 372.055 | 98.16 | 96.35 | 94.58 | 92.84 | 91.13 | 89.45 | 87.80 | 86.19 |
| 100.9 | 0.03231 | 371.686 | 98.16 | 96.35 | 94.57 | 92.83 | 91.12 | 89.44 | 87.79 | 86.17 |
| 101.1 | 0.03234 | 371.319 | 98.16 | 96.34 | 94.57 | 92.82 | 91.11 | 89.43 | 87.78 | 86.16 |
| 101.3 | 0.03238 | 370.952 | 98.15 | 96.34 | 94.56 | 92.82 | 91.10 | 89.42 | 87.77 | 86.15 |
| 101.5 | 0.03241 | 370.586 | 98.15 | 96.34 | 94.56 | 92.81 | 91.09 | 89.41 | 87.76 | 86.14 |
| 101.7 | 0.03244 | 370.222 | 98.15 | 96.33 | 94.55 | 92.80 | 91.09 | 89.40 | 87.75 | 86.12 |
| 101.9 | 0.03247 | 369.858 | 98.15 | 96.33 | 94.55 | 92.80 | 91.08 | 89.39 | 87.74 | 86.11 |
| 102.1 | 0.03250 | 369.496 | 98.15 | 96.33 | 94.54 | 92.79 | 91.07 | 89.38 | 87.72 | 86.10 |
| 102.3 | 0.03254 | 369.134 | 98.14 | 96.32 | 94.54 | 92.78 | 91.06 | 89.37 | 87.71 | 86.09 |
| 102.5 | 0.03257 | 368.774 | 98.14 | 96.32 | 94.53 | 92.78 | 91.05 | 89.36 | 87.70 | 86.07 |
| 102.7 | 0.03260 | 368.415 | 98.14 | 96.32 | 94.53 | 92.77 | 91.04 | 89.35 | 87.69 | 86.06 |
| 102.9 | 0.03263 | 368.057 | 98.14 | 96.31 | 94.52 | 92.76 | 91.04 | 89.34 | 87.68 | 86.05 |
| 103.1 | 0.03266 | 367.699 | 98.14 | 96.31 | 94.52 | 92.76 | 91.03 | 89.33 | 87.67 | 86.03 |
| 103.3 | 0.03269 | 367.343 | 98.14 | 96.31 | 94.51 | 92.75 | 91.02 | 89.32 | 87.66 | 86.02 |
| 103.5 | 0.03273 | 366.988 | 98.13 | 96.30 | 94.51 | 92.74 | 91.01 | 89.31 | 87.65 | 86.01 |
| 103.7 | 0.03276 | 366.634 | 98.13 | 96.30 | 94.50 | 92.73 | 91.00 | 89.30 | 87.63 | 86.00 |
| 103.9 | 0.03279 | 366.281 | 98.13 | 96.30 | 94.49 | 92.73 | 90.99 | 89.29 | 87.62 | 85.98 |
| 104.1 | 0.03282 | 365.929 | 98.13 | 96.29 | 94.49 | 92.72 | 90.99 | 89.28 | 87.61 | 85.97 |
| 104.3 | 0.03285 | 365.578 | 98.13 | 96.29 | 94.48 | 92.71 | 90.98 | 89.27 | 87.60 | 85.96 |
| 104.5 | 0.03288 | 365.228 | 98.12 | 96.28 | 94.48 | 92.71 | 90.97 | 89.26 | 87.59 | 85.95 |
| 104.7 | 0.03291 | 364.879 | 98.12 | 96.28 | 94.47 | 92.70 | 90.96 | 89.25 | 87.58 | 85.94 |
| 104.9 | 0.03295 | 364.531 | 98.12 | 96.28 | 94.47 | 92.69 | 90.95 | 89.24 | 87.57 | 85.92 |
| 105.1 | 0.03298 | 364.184 | 98.12 | 96.27 | 94.46 | 92.69 | 90.94 | 89.23 | 87.56 | 85.91 |
| 105.3 | 0.03301 | 363.838 | 98.12 | 96.27 | 94.46 | 92.68 | 90.94 | 89.22 | 87.55 | 85.90 |
| 105.5 | 0.03304 | 363.493 | 98.12 | 96.27 | 94.45 | 92.67 | 90.93 | 89.22 | 87.53 | 85.89 |
| 105.7 | 0.03307 | 363.149 | 98.11 | 96.26 | 94.45 | 92.67 | 90.92 | 89.21 | 87.52 | 85.87 |
| 105.9 | 0.03310 | 362.806 | 98.11 | 96.26 | 94.44 | 92.66 | 90.91 | 89.20 | 87.51 | 85.86 |
| 106.1 | 0.03313 | 362.464 | 98.11 | 96.26 | 94.44 | 92.65 | 90.90 | 89.19 | 87.50 | 85.85 |
| 106.3 | 0.03317 | 362.123 | 98.11 | 96.25 | 94.43 | 92.65 | 90.90 | 89.18 | 87.49 | 85.84 |
| 106.5 | 0.03320 | 361.782 | 98.11 | 96.25 | 94.43 | 92.64 | 90.89 | 89.17 | 87.48 | 85.82 |
| 106.7 | 0.03323 | 361.443 | 98.11 | 96.25 | 94.42 | 92.63 | 90.88 | 89.16 | 87.47 | 85.81 |
| 106.9 | 0.03326 | 361.105 | 98.10 | 96.24 | 94.42 | 92.63 | 90.87 | 89.15 | 87.46 | 85.80 |
| 107.1 | 0.03329 | 360.768 | 98.10 | 96.24 | 94.41 | 92.62 | 90.86 | 89.14 | 87.45 | 85.79 |
| 107.3 | 0.03332 | 360.431 | 98.10 | 96.24 | 94.41 | 92.61 | 90.85 | 89.13 | 87.44 | 85.77 |
| 107.5 | 0.03335 | 360.096 | 98.10 | 96.23 | 94.40 | 92.61 | 90.85 | 89.12 | 87.42 | 85.76 |
| 107.7 | 0.03338 | 359.761 | 98.10 | 96.23 | 94.40 | 92.60 | 90.84 | 89.11 | 87.41 | 85.75 |
| 107.9 | 0.03341 | 359.428 | 98.09 | 96.23 | 94.39 | 92.59 | 90.83 | 89.10 | 87.40 | 85.74 |

Standard Conditions:

Attenuation: Ambient Temperature 20°C (68°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0, OKW