

| mhz                | zreal               | zimag               | vswr               | gain_max            | gain_net              |
|--------------------|---------------------|---------------------|--------------------|---------------------|-----------------------|
| 3.1000000000000001 | 18.355822859233403  | -159.79919147623031 | 17.887370272126457 | -1.6770319153991942 | -8.6543969195934558   |
|                    | 19.860622268821597  | -117.09893002920404 | 13.547765254044299 | -2.1989219626510184 | -8.1155711117744485   |
|                    | 22.210498206436146  | -71.313812677929164 | 10.162277574045346 | -2.6194560560020665 | -7.4840019711131642   |
|                    | 29.250381077490609  | -16.818339183223145 | 6.886917738073878  | -1.899627417431843  | -5.4369247706614434   |
|                    | 81.51320088688999   | 49.891640413384991  | 2.6342232034346562 | 0.88991758690299139 | -0.091188728791321005 |
|                    | 97.81918548051091   | -9.2861800279635975 | 2.0503772766600243 | 3.1117556010472276  | 2.5636221743107543    |
|                    | 59.510450326240814  | 33.021536135837714  | 3.4609876530777872 | 3.5290847719697083  | 1.9530647605038485    |
|                    | 51.910941476707521  | 81.606407371617436  | 4.5331554148087179 | 3.5097302511262911  | 1.2348788749147408    |
| 3.8000000000000007 | 51.3975591811191085 | 128.39653901478076  | 5.5725115369001736 | 3.4903956135683156  | 0.61687814753059511   |
|                    |                     |                     |                    |                     |                       |
| 5.1999999999999996 | 433.22692329433443  | 1373.2250461915405  | 24.350683775737416 | 4.9056383156159491  | -3.288443720691749    |
| 5.2999999999999996 | 617.50092177700947  | 1629.7561735897355  | 24.878087221972422 | 5.0154797210052271  | -3.2643939509853128   |
| 5.3999999999999995 | 944.0968444912628   | 1952.9614789737377  | 25.091982512608233 | 5.125393448100894   | -3.1887984522465533   |
| 5.4999999999999995 | 1571.4119594902465  | 2311.3142017424266  | 24.942245199396876 | 5.2362050483189861  | -3.0539907922779861   |
|                    |                     |                     |                    |                     |                       |
| 7.099999999999999  | 463.39996084745411  | 113.20871747396795  | 2.484358619158801  | 5.1684733968647842  | 4.2987592311663896    |
| 7.1999999999999895 | 507.23942318446495  | 241.22523472326912  | 3.1906651629541436 | 5.0300935836832785  | 3.6438465666063289    |
| 7.2999999999999892 | 587.45323642860183  | 368.9770028985572   | 4.1982915013552962 | 4.9758782511330368  | 2.9099914722811526    |
|                    |                     |                     |                    |                     |                       |
| 10.099999999999998 | 174.37781895766051  | -117.9983691274624  | 1.8885558142207155 | 6.6885238838974157  | 6.2568067691610558    |
| 10.199999999999998 | 194.87151872888663  | -61.410214022335204 | 1.3646451820726226 | 6.6956591211478482  | 6.5911368261272303    |
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| 14.099999999999996 | 249.5494073433413   | 14.872902143324501  | 1.2599264909719676 | 7.3341028359582507  | 7.276268563380123     |
| 14.199999999999996 | 250.33475088860217  | 44.773582749918816  | 1.3497852558076842 | 7.1243676217642857  | 7.0270508456352854    |
| 14.299999999999995 | 254.2305883546328   | 77.019644952173579  | 1.5140081683184288 | 6.9296317058151207  | 6.74418011312983      |
| 14.399999999999995 | 261.53929447224181  | 110.54230792557735  | 1.7269554914829328 | 6.7471951288949716  | 6.427045497738531     |
| 14.499999999999964 | 272.04665290328512  | 144.52661480569483  | 1.9722767299540476 | 6.594888321364504   | 6.1033819137482013    |
|                    |                     |                     |                    |                     |                       |
| 18.099999999999987 | 1322.70096470562    | -637.78855596983942 | 8.1801282836385401 | 8.9179420502999065  | 4.8091681064171663    |
| 18.199999999999989 | 1173.7313808704298  | -827.61081493795939 | 8.8437667726909215 | 8.784408171387037   | 4.4081545841497141    |
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| 21.000000000000028 | 195.51896885588127  | -19.792334685925585 | 1.1080231032536543 | 8.9605841934347126  | 8.9491649399093873    |
| 21.100000000000003 | 197.82475208894047  | -2.6766906230433847 | 1.0174911088573986 | 8.6545747381200346  | 8.6542482915875034    |
| 21.200000000000031 | 199.84803670921576  | 15.358873263954123  | 1.0798351990278405 | 8.3253232037792877  | 8.318919438028864     |
| 21.300000000000033 | 202.45613070230047  | 34.250748972451532  | 1.185829436976751  | 8.0067932515546723  | 7.9752900275185805    |
| 21.400000000000034 | 205.67452380467773  | 53.934896431061794  | 1.3055257178119748 | 7.7397167359165078  | 7.6627715426518375    |
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| 24.000000000000071 | 972.42485610673043  | 506.6985473530296   | 6.227332885942614  | 7.4434597268836811  | 4.227519288762708     |
| 24.100000000000072 | 1062.7949458589451  | 462.63705870874634  | 6.3516532831752723 | 7.5676326770367455  | 4.2894000877689402    |
| 24.200000000000074 | 1146.0893074821843  | 395.27700779960418  | 6.4310979076182031 | 7.6466551587856211  | 4.3290466189289099    |
| 24.300000000000075 | 1214.4790978448495  | 308.01938382196602  | 6.4731953673538163 | 7.6556795895336531  | 4.3173399310849714    |
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| 24.500000000000078 | 1286.4548558384188  | 97.78547452255674   | 6.4703533673441456 | 7.6221515622208695  | 4.2852085597794414    |
| 24.60000000000008  | 1284.9472795772685  | -9.9122462854207249 | 6.4251282111686008 | 7.4162592764708046  | 4.1015980305140838    |
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| 50.000000000000441 | 704.5762277621767   | 202.0271574385647   | 3.835671131386007  | 8.3723134927974083  | 6.5421918988378298    |
| 50.100000000000442 | 735.90697999856263  | 191.56986270422215  | 3.9473172150678053 | 8.4417391439872151  | 6.5379641915685633    |
| 50.200000000000443 | 767.75932784509268  | 174.00248142598923  | 4.0495294560227366 | 8.5053994563697941  | 6.535026793784283     |
| 50.300000000000445 | 798.41340681574047  | 148.75786608128874  | 4.1395735319657367 | 8.5643428116154698  | 6.5359570613871147    |
| 50.400000000000446 | 825.87202992590403  | 115.70420305446306  | 4.2153506988315046 | 8.6197702527571387  | 6.5430369396119943    |
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| 51.300000000000459 | 692.12731257552377  | -275.70908654093705 | 4.0519498963491358 | 9.8663578566510317  | 7.8944177410791152    |
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| 51.500000000000462 | 591.97718128122347  | -294.92626292709042 | 3.7669385746381927 | 10.267395506337582  | 8.4830896887987848    |
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| 52.000000000000469 | 395.5837364599202   | -212.40956707498111 | 2.6807379790360866 | 11.093926212523062  | 10.078371749942388    |
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| 69.900000000000304 | 297.12048690598243  | -47.882094562704452 | 1.5536778825793514 | 11.398351058556857  | 11.189238504098103    |
| 70.000000000000298 | 289.06054364655711  | -29.81687030567068  | 1.4742805240423864 | 11.139640708979448  | 10.977063172441321    |
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| 70.300000000000281 | 273.16891427332069  | 20.01141498499307   | 1.3814396029353868 | 10.165945262679925  | 10.053072765552972    |
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| 70.600000000000264 | 252.99418351166156  | 71.419330135442195  | 1.4811664206085446 | 9.6013934494525301  | 9.4349140407824006    |
| 70.700000000000259 | 252.25553250718639  | 87.128698152138597  | 1.5660431014870926 | 9.5276741216370464  | 9.311032204917506     |
| 70.800000000000253 | 252.50207284836091  | 102.70661829701218  | 1.6616563495782777 | 9.5012543062847712  | 9.2242266869442098    |
| 70.900000000000247 | 253.76294846210283  | 118.09017087829798  | 1.7652203341387347 | 9.5101439268609038  | 9.164138219535312     |
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