

SCHWARZBECK MESS - ELEKTRONIK

An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

TRILOG Hochleistungs Breitband-Antenne VULB 9161 TRILOG High Power Broadband Antenna VULB 9161

| Frequency | Distance | lambda | Attenuat. | Gain(Isotr.) | Gain,dipole | Ant.-Factor |
|-----------|----------|--------|-----------|--------------|-------------|-------------|
| MHz | m | m | dB | dBi | dBd | dB/m |
| 30.00 | 5.30 | 10.00 | 36.30 | -9.92 | -12.07 | 9.68 |
| 35.00 | 5.30 | 8.57 | 35.10 | -8.65 | -10.80 | 9.75 |
| 40.00 | 5.30 | 7.50 | 36.10 | -8.57 | -10.72 | 10.83 |
| 45.00 | 5.30 | 6.67 | 34.95 | -7.48 | -9.63 | 10.76 |
| 50.00 | 5.30 | 6.00 | 32.50 | -5.80 | -7.95 | 10.00 |
| 60.00 | 5.30 | 5.00 | 30.50 | -4.00 | -6.16 | 9.79 |
| 70.00 | 5.30 | 4.29 | 23.00 | 0.41 | -1.74 | 6.71 |
| 80.00 | 5.30 | 3.75 | 23.10 | 0.94 | -1.21 | 7.34 |
| 90.00 | 5.30 | 3.33 | 26.95 | -0.47 | -2.62 | 9.77 |
| 100.00 | 5.30 | 3.00 | 28.30 | -0.69 | -2.84 | 10.91 |
| 110.00 | 5.30 | 2.73 | 26.50 | 0.63 | -1.52 | 10.42 |
| 120.00 | 5.30 | 2.50 | 26.70 | 0.91 | -1.25 | 10.90 |
| 130.00 | 5.30 | 2.31 | 28.50 | 0.35 | -1.80 | 12.15 |
| 140.00 | 5.30 | 2.14 | 31.30 | -0.73 | -2.88 | 13.87 |
| 150.00 | 5.30 | 2.00 | 34.60 | -2.08 | -4.23 | 15.82 |
| 160.00 | 5.30 | 1.88 | 35.50 | -2.25 | -4.40 | 16.55 |
| 170.00 | 5.30 | 1.76 | 31.00 | 0.27 | -1.88 | 14.56 |
| 180.00 | 5.30 | 1.67 | 26.40 | 2.82 | 0.67 | 12.51 |
| 190.00 | 5.21 | 1.58 | 22.90 | 4.72 | 2.57 | 11.07 |
| 200.00 | 5.12 | 1.50 | 21.70 | 5.47 | 3.32 | 10.77 |
| 210.00 | 5.04 | 1.43 | 22.15 | 5.39 | 3.24 | 11.27 |
| 220.00 | 4.97 | 1.36 | 21.30 | 5.96 | 3.81 | 11.11 |
| 230.00 | 4.91 | 1.30 | 20.00 | 6.75 | 4.60 | 10.71 |
| 240.00 | 4.85 | 1.25 | 19.60 | 7.08 | 4.93 | 10.74 |
| 250.00 | 4.79 | 1.20 | 19.55 | 7.23 | 5.08 | 10.95 |
| 260.00 | 4.74 | 1.15 | 19.90 | 7.18 | 5.03 | 11.34 |
| 270.00 | 4.70 | 1.11 | 20.30 | 7.10 | 4.95 | 11.74 |
| 280.00 | 4.66 | 1.07 | 20.65 | 7.05 | 4.90 | 12.12 |
| 290.00 | 4.62 | 1.03 | 20.85 | 7.06 | 4.91 | 12.41 |
| 300.00 | 4.58 | 1.00 | 21.00 | 7.10 | 4.95 | 12.66 |
| 325.00 | 4.49 | 0.92 | 21.35 | 7.19 | 5.04 | 13.27 |
| 350.00 | 4.42 | 0.86 | 21.78 | 7.23 | 5.08 | 13.87 |
| 375.00 | 4.36 | 0.80 | 22.40 | 7.16 | 5.01 | 14.54 |
| 400.00 | 4.31 | 0.75 | 22.95 | 7.11 | 4.96 | 15.15 |
| 425.00 | 4.26 | 0.71 | 23.55 | 7.02 | 4.87 | 15.76 |
| 450.00 | 4.22 | 0.67 | 24.15 | 6.93 | 4.78 | 16.36 |
| 475.00 | 4.18 | 0.63 | 24.37 | 7.01 | 4.86 | 16.74 |
| 500.00 | 4.14 | 0.60 | 24.50 | 7.14 | 4.98 | 17.06 |
| 525.00 | 4.11 | 0.57 | 24.90 | 7.12 | 4.96 | 17.51 |
| 550.00 | 4.09 | 0.55 | 25.55 | 6.96 | 4.81 | 18.06 |
| 575.00 | 4.06 | 0.52 | 26.15 | 6.83 | 4.68 | 18.59 |
| 600.00 | 4.04 | 0.50 | 26.75 | 6.69 | 4.54 | 19.10 |
| 625.00 | 4.01 | 0.48 | 27.30 | 6.57 | 4.42 | 19.57 |
| 650.00 | 3.99 | 0.46 | 27.70 | 6.52 | 4.36 | 19.96 |
| 675.00 | 3.98 | 0.44 | 27.80 | 6.61 | 4.46 | 20.20 |
| 700.00 | 3.96 | 0.43 | 28.10 | 6.60 | 4.45 | 20.52 |
| Frequency | Distance | lambda | Attenuat. | Gain(Isotr.) | Gain,dipole | Ant.-Factor |

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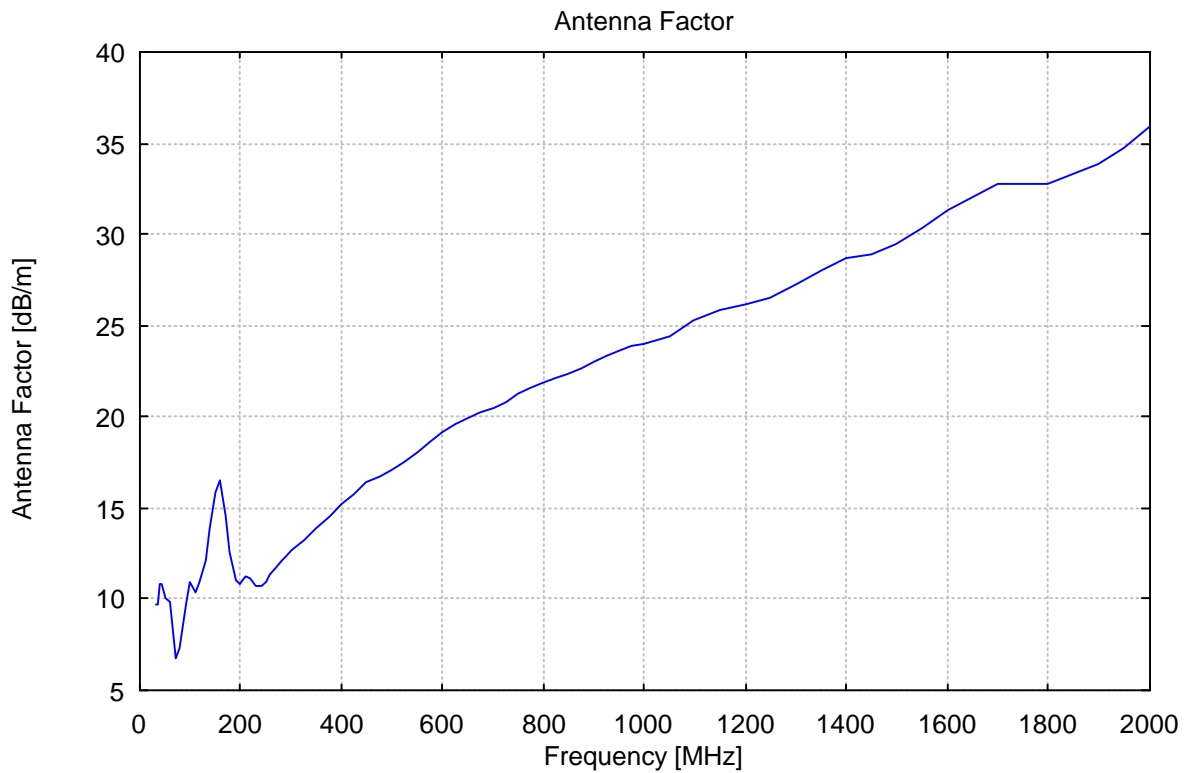
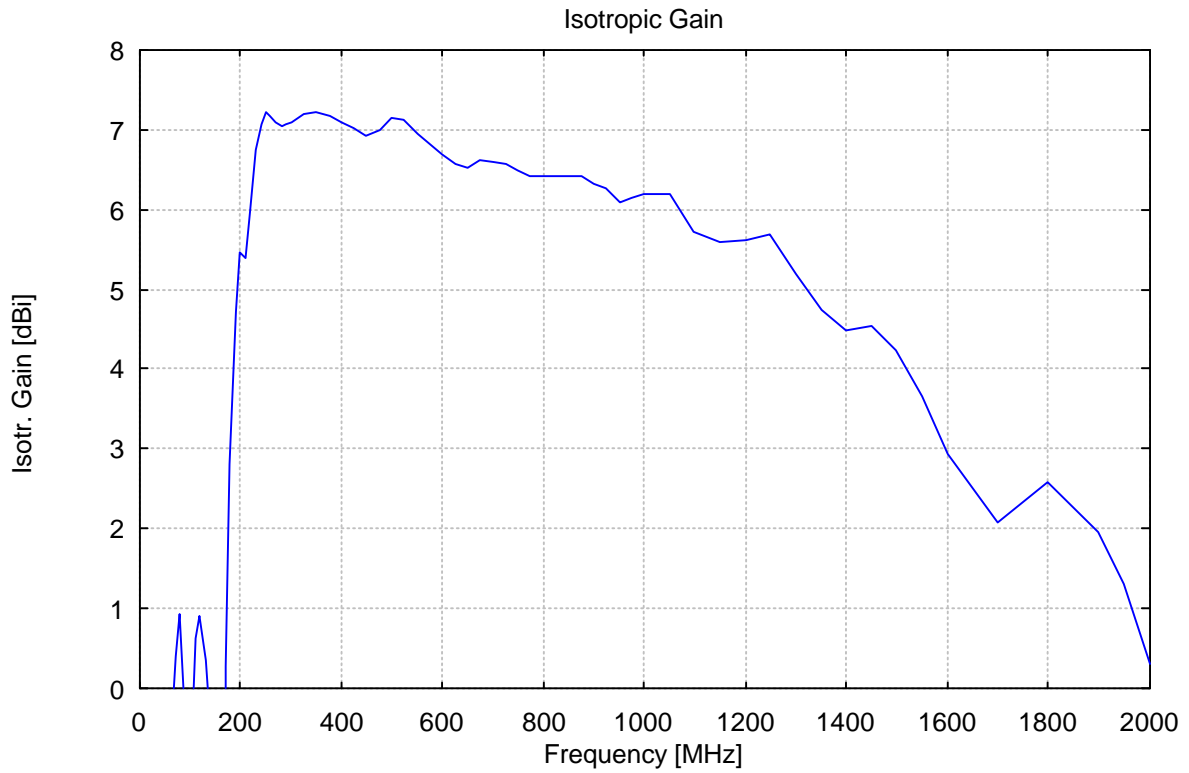
TRILOG Hochleistungs Breitband-Antenne VULB 9161 TRILOG High Power Broadband Antenna VULB 9161

| Frequency | Distance | lambda | Attenuat. | Gain(Isotr.) | Gain,dipole | Ant.-Factor |
|-----------|----------|--------|-----------|--------------|-------------|-------------|
| MHz | m | m | dB | dBi | dBd | dB/m |
| 700.00 | 3.96 | 0.43 | 28.10 | 6.60 | 4.45 | 20.52 |
| 725.00 | 3.94 | 0.41 | 28.40 | 6.58 | 4.43 | 20.84 |
| 750.00 | 3.93 | 0.40 | 28.85 | 6.49 | 4.34 | 21.23 |
| 775.00 | 3.91 | 0.39 | 29.25 | 6.42 | 4.26 | 21.59 |
| 800.00 | 3.90 | 0.38 | 29.50 | 6.41 | 4.26 | 21.87 |
| 825.00 | 3.89 | 0.36 | 29.70 | 6.43 | 4.28 | 22.12 |
| 850.00 | 3.88 | 0.35 | 29.95 | 6.43 | 4.27 | 22.38 |
| 875.00 | 3.87 | 0.34 | 30.20 | 6.41 | 4.26 | 22.65 |
| 900.00 | 3.86 | 0.33 | 30.60 | 6.32 | 4.17 | 22.98 |
| 925.00 | 3.85 | 0.32 | 30.95 | 6.26 | 4.11 | 23.29 |
| 950.00 | 3.84 | 0.32 | 31.50 | 6.09 | 3.94 | 23.69 |
| 975.00 | 3.83 | 0.31 | 31.60 | 6.14 | 3.99 | 23.86 |
| 1000.00 | 3.82 | 0.30 | 31.70 | 6.19 | 4.04 | 24.03 |
| 1050.00 | 3.80 | 0.29 | 32.10 | 6.19 | 4.03 | 24.46 |
| 1100.00 | 3.79 | 0.27 | 33.40 | 5.72 | 3.57 | 25.33 |
| 1150.00 | 3.78 | 0.26 | 34.00 | 5.60 | 3.45 | 25.83 |
| 1200.00 | 3.77 | 0.25 | 34.30 | 5.62 | 3.47 | 26.18 |
| 1250.00 | 3.76 | 0.24 | 34.50 | 5.69 | 3.54 | 26.47 |
| 1300.00 | 3.75 | 0.23 | 35.80 | 5.19 | 3.04 | 27.30 |
| 1350.00 | 3.74 | 0.22 | 37.00 | 4.75 | 2.60 | 28.08 |
| 1400.00 | 3.73 | 0.21 | 37.80 | 4.50 | 2.35 | 28.65 |
| 1450.00 | 3.72 | 0.21 | 38.00 | 4.54 | 2.39 | 28.91 |
| 1500.00 | 3.71 | 0.20 | 38.90 | 4.23 | 2.08 | 29.51 |
| 1550.00 | 3.70 | 0.19 | 40.30 | 3.66 | 1.51 | 30.36 |
| 1600.00 | 3.70 | 0.19 | 42.00 | 2.94 | 0.79 | 31.36 |
| 1700.00 | 3.69 | 0.18 | 44.20 | 2.09 | -0.06 | 32.74 |
| 1800.00 | 3.68 | 0.17 | 43.70 | 2.58 | 0.43 | 32.75 |
| 1900.00 | 3.67 | 0.16 | 45.40 | 1.95 | -0.20 | 33.84 |
| 1950.00 | 3.66 | 0.15 | 46.90 | 1.31 | -0.84 | 34.71 |
| 2000.00 | 3.66 | 0.15 | 49.10 | 0.31 | -1.84 | 35.93 |
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