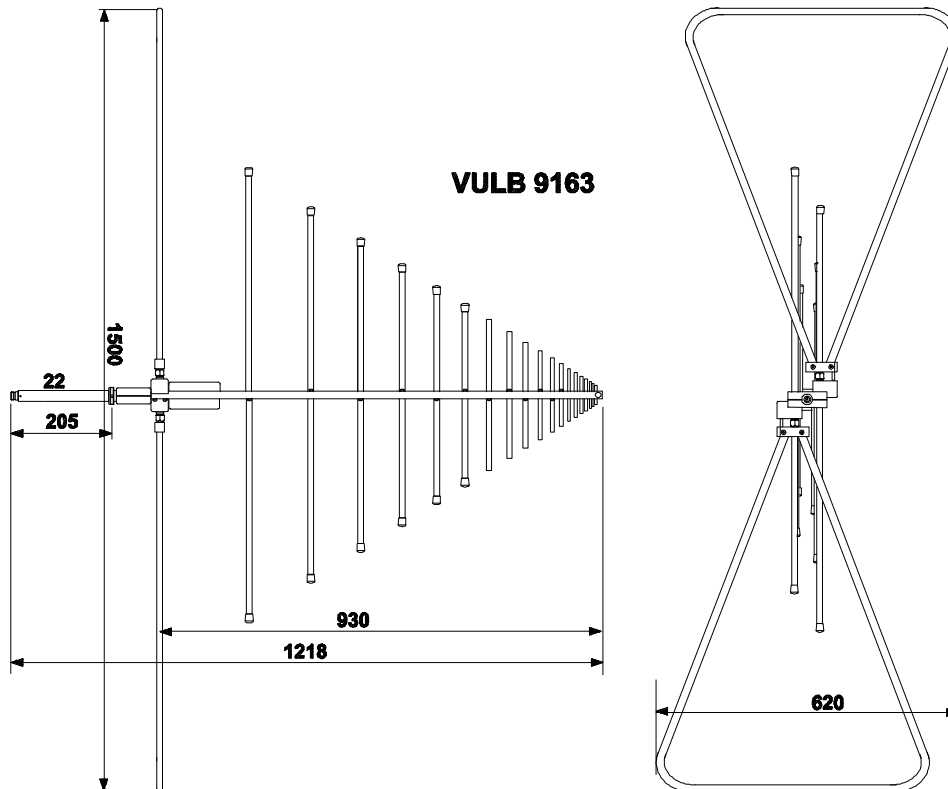


SCHWARZBECK MESS - ELEKTRONIK

KiloSense Ltd. Tel.: 86-10-68255404 Fax.:86-10-68251423

VULB 9163 Breitband TRILOG Antenne 30 - 3000 MHz, 100 W VULB 9163 TRILOG Broadband Antenna 30-3000 MHz, 100 W



Technische Daten:

VULB 9163

Specifications:

Bauart:

Linear polarisierte Logarithmisch Periodische Breitbandantenne mit 4:1 Breitbanddipol in Aluminiumausführung für Empfangs- und Sendeanwendungen

Type:

Linear polarized Logarithmic Periodic Broadband Antenna combined with a 4:1 Broadband Dipole (Aluminium tubing) for Receive and Transmit Applications

Frequenzbereich, nominell:

30 MHz...3 GHz

Nominal Frequency Range:

Nutzbarer Frequenzbereich:

25 MHz ... 4 GHz

Usable Frequency Range:

Isotropiegewinn im LP-Bereich:

6.4+/- 1.2 dBi

Isotropic Gain (LP-Section):

Antennenfaktor:

7 ... 34 dB/m

Antenna Factor:

Impedanz, nominell:

50 Ω

Nominal Impedance:

Stehwellenverhältnis SWR typisch:

<1.5

Standing Wave Ratio SWR typical:

Vor- Rückverhältnis:

20 dB (f > 150 MHz)

Front to Back Ratio:

Polarisationsentkopplung:

>20 dB (30 MHz...1 GHz)

Cross Polarisation:

3 dB Öffnungswinkel typ.(E-Ebene):

45°-65° (f > 150 MHz)

3 dB Beamwidth typ. (E-Plane):

3 dB Öffnungswinkel typ.(E-Ebene):

≈78° (f < 150 MHz)

3 dB Beamwidth typ. (E-Plane):

3 dB Öffnungswinkel typ.(H-Ebene):

90°-120° (f > 150 MHz)

3 dB Beamwidth typ. (H-Plane):

Max. Eingangsleistung:

200 W (intermitt.)

Max. Input Power:

100 W (cont.)

Anschlußart: N-Buchse

N-Connector female

Halterung: 22 mm Rohr, Rastring

Mount: 22 mm Tube, Indexing Ring

Breite x Länge x Dicke:

1500 x 930 (1218) x 620 mm

Width x Length x Thickness:

Gewicht:

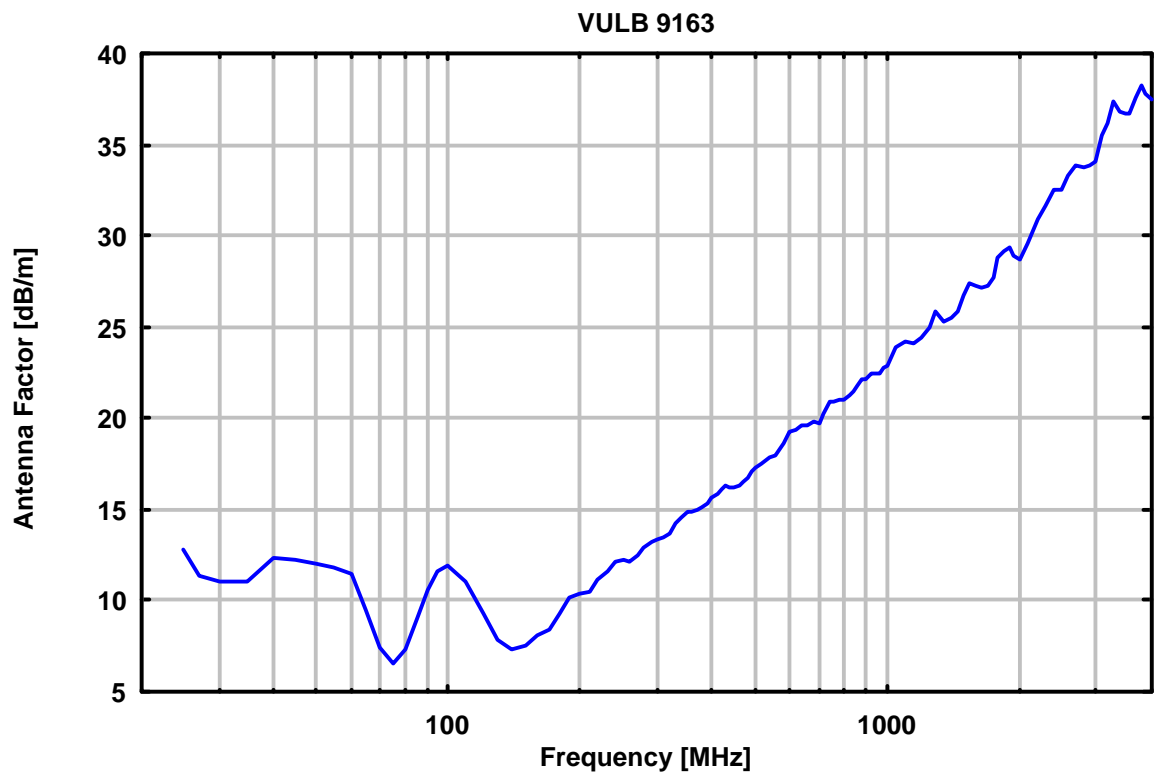
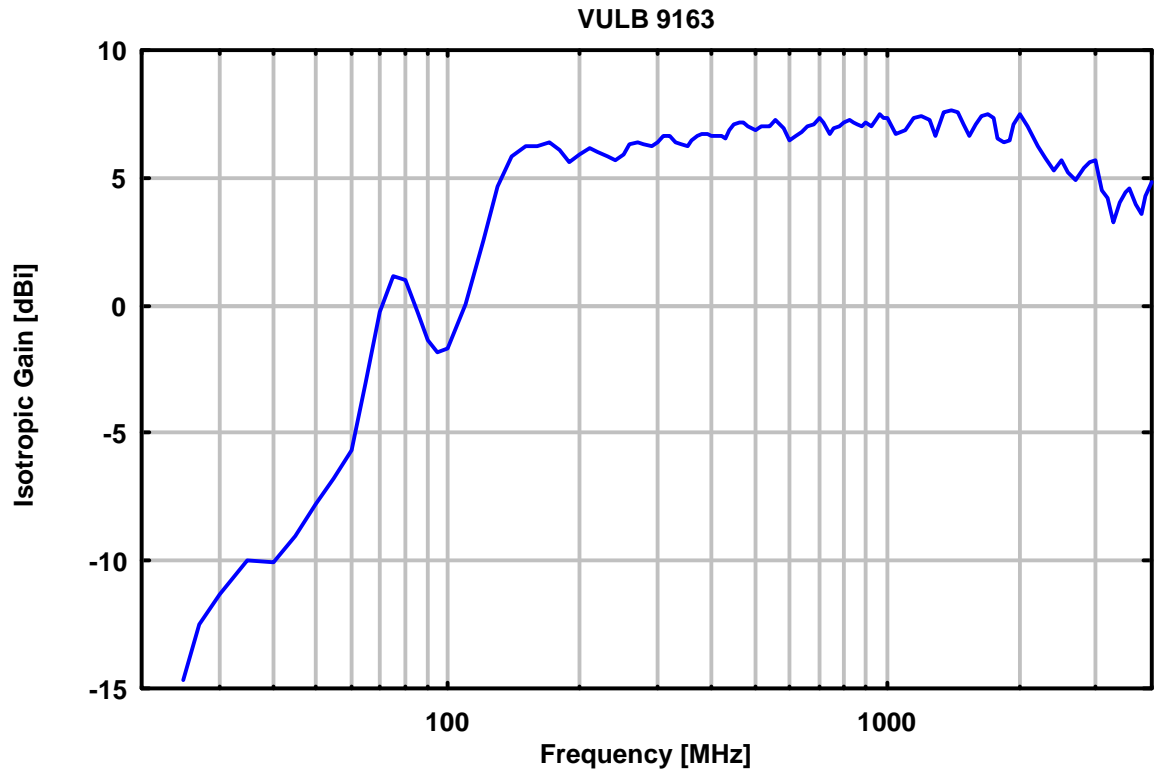
3.1 kg

Weight:

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VULB 9163 Breitband TRILOG Antenne 30 - 3000 MHz, 100 W
VULB 9163 TRILOG Broadband Antenna 30-3000 MHz, 100 W



SCHWARZBECK MESS - ELEKTRONIK

KiloSense Ltd. Tel.: 86-10-68255404 Fax.:86-10-68251423

VULB 9163 Kalibrierdaten (Fernfeld) VULB 9163 Calibration Data (Farfield)

| <i>Frequency</i> | <i>Distance</i> | <i>Wavelength</i> | <i>Attenuation</i> | <i>Gain(Isotr.)</i> | <i>Gain(Dipole)</i> | <i>Ant.-Factor</i> |
|------------------|-----------------|-------------------|--------------------|---------------------|---------------------|--------------------|
| Frequenz | Abstand | Wellenlänge | Dämpfung | Isotropgewinn | Gewinn über Dipol | Ant.-Wandlungsmaß |
| MHz | m | m | dB | dBi | dBd | dB/m |
| 25.00 | 5.00 | 12.00 | 43.70 | -14.66 | -16.81 | 12.84 |
| 27.00 | 5.00 | 11.11 | 40.05 | -12.50 | -14.65 | 11.35 |
| 30.00 | 5.00 | 10.00 | 38.60 | -11.32 | -13.47 | 11.08 |
| 35.00 | 5.00 | 8.57 | 37.20 | -9.95 | -12.10 | 11.05 |
| 40.00 | 5.00 | 7.50 | 38.60 | -10.07 | -12.22 | 12.33 |
| 45.00 | 5.00 | 6.67 | 37.50 | -9.01 | -11.16 | 12.29 |
| 50.00 | 5.00 | 6.00 | 36.00 | -7.80 | -9.95 | 12.00 |
| 55.00 | 5.00 | 5.45 | 34.70 | -6.74 | -8.89 | 11.76 |
| 60.00 | 5.00 | 5.00 | 33.30 | -5.66 | -7.81 | 11.44 |
| 65.00 | 5.00 | 4.62 | 28.64 | -2.98 | -5.13 | 9.46 |
| 70.00 | 5.00 | 4.29 | 23.89 | -0.28 | -2.43 | 7.41 |
| 75.00 | 5.00 | 4.00 | 21.58 | 1.17 | -0.98 | 6.55 |
| 80.00 | 5.00 | 3.75 | 22.50 | 0.99 | -1.16 | 7.29 |
| 85.00 | 5.00 | 3.53 | 25.50 | -0.25 | -2.40 | 9.05 |
| 90.00 | 5.00 | 3.33 | 28.18 | -1.34 | -3.49 | 10.64 |
| 95.00 | 5.00 | 3.16 | 29.59 | -1.81 | -3.96 | 11.58 |
| 100.00 | 5.00 | 3.00 | 29.80 | -1.69 | -3.84 | 11.91 |
| 110.00 | 5.00 | 2.73 | 27.15 | 0.05 | -2.10 | 11.00 |
| 120.00 | 5.00 | 2.50 | 22.85 | 2.58 | 0.43 | 9.23 |
| 130.00 | 4.86 | 2.31 | 19.17 | 4.64 | 2.49 | 7.86 |
| 140.00 | 4.73 | 2.14 | 17.15 | 5.86 | 3.71 | 7.28 |
| 150.00 | 4.63 | 2.00 | 16.75 | 6.26 | 4.11 | 7.48 |
| 160.00 | 4.53 | 1.88 | 17.10 | 6.27 | 4.12 | 8.03 |
| 170.00 | 4.45 | 1.76 | 17.24 | 6.39 | 4.24 | 8.44 |
| 180.00 | 4.38 | 1.67 | 18.21 | 6.08 | 3.93 | 9.25 |
| 190.00 | 4.31 | 1.58 | 19.54 | 5.58 | 3.43 | 10.21 |
| 200.00 | 4.25 | 1.50 | 19.18 | 5.93 | 3.77 | 10.32 |
| 210.00 | 4.20 | 1.43 | 18.98 | 6.18 | 4.03 | 10.48 |
| 220.00 | 4.15 | 1.36 | 19.69 | 5.98 | 3.83 | 11.09 |
| 230.00 | 4.10 | 1.30 | 20.24 | 5.85 | 3.70 | 11.61 |
| 240.00 | 4.06 | 1.25 | 20.78 | 5.72 | 3.57 | 12.10 |
| 250.00 | 4.03 | 1.20 | 20.60 | 5.95 | 3.80 | 12.23 |
| 260.00 | 3.99 | 1.15 | 20.07 | 6.35 | 4.19 | 12.17 |
| 270.00 | 3.96 | 1.11 | 20.20 | 6.41 | 4.26 | 12.44 |
| 280.00 | 3.93 | 1.07 | 20.69 | 6.29 | 4.14 | 12.87 |
| 290.00 | 3.90 | 1.03 | 21.01 | 6.25 | 4.10 | 13.22 |
| 300.00 | 3.88 | 1.00 | 20.91 | 6.42 | 4.27 | 13.34 |
| 320.00 | 3.83 | 0.94 | 20.93 | 6.64 | 4.49 | 13.69 |
| 340.00 | 3.79 | 0.88 | 22.01 | 6.31 | 4.16 | 14.54 |
| 360.00 | 3.75 | 0.83 | 22.17 | 6.44 | 4.29 | 14.91 |
| 380.00 | 3.72 | 0.79 | 22.04 | 6.70 | 4.55 | 15.11 |
| 400.00 | 3.69 | 0.75 | 22.55 | 6.63 | 4.48 | 15.63 |
| 420.00 | 3.66 | 0.71 | 22.97 | 6.60 | 4.45 | 16.08 |
| 440.00 | 3.64 | 0.68 | 22.76 | 6.88 | 4.73 | 16.21 |
| 460.00 | 3.61 | 0.65 | 22.47 | 7.19 | 5.04 | 16.28 |
| 480.00 | 3.59 | 0.63 | 23.08 | 7.05 | 4.90 | 16.80 |
| 500.00 | 3.58 | 0.60 | 23.73 | 6.88 | 4.73 | 17.32 |
| <i>Frequency</i> | <i>Distance</i> | <i>Wavelength</i> | <i>Attenuation</i> | <i>Gain(Isotr.)</i> | <i>Gain(Dipole)</i> | <i>Ant.-Factor</i> |
| MHz | m | m | dB | dBi | dBd | dB/m |

VULB 9163 Kalibrierdaten (Fernfeld)
VULB 9163 Calibration Data (Farfield)

| <i>Frequency</i> | <i>Distance</i> | <i>Wavelength</i> | <i>Attenuation</i> | <i>Gain(Isotr.)</i> | <i>Gain(Dipole)</i> | <i>Ant.-Factor</i> |
|------------------|-----------------|-------------------|--------------------|---------------------|---------------------|--------------------|
| Frequenz | Abstand | Wellenlänge | Dämpfung | Isotropgewinn | Gewinn über Dipol | Ant.-Wandlungsmaß |
| MHz | m | m | dB | dBi | dBd | dB/m |
| 500.00 | 3.58 | 0.60 | 23.73 | 6.88 | 4.73 | 17.32 |
| 520.00 | 3.56 | 0.58 | 23.73 | 7.03 | 4.88 | 17.51 |
| 540.00 | 3.54 | 0.56 | 24.09 | 6.99 | 4.84 | 17.88 |
| 560.00 | 3.53 | 0.54 | 23.81 | 7.27 | 5.12 | 17.91 |
| 580.00 | 3.51 | 0.52 | 24.76 | 6.93 | 4.78 | 18.56 |
| 600.00 | 3.50 | 0.50 | 25.95 | 6.47 | 4.32 | 19.31 |
| 620.00 | 3.49 | 0.48 | 25.80 | 6.67 | 4.52 | 19.40 |
| 640.00 | 3.48 | 0.47 | 25.86 | 6.76 | 4.61 | 19.58 |
| 660.00 | 3.47 | 0.45 | 25.52 | 7.05 | 4.90 | 19.56 |
| 680.00 | 3.46 | 0.44 | 25.66 | 7.10 | 4.95 | 19.77 |
| 700.00 | 3.45 | 0.43 | 25.37 | 7.36 | 5.21 | 19.76 |
| 720.00 | 3.44 | 0.42 | 25.97 | 7.17 | 5.02 | 20.20 |
| 740.00 | 3.43 | 0.41 | 27.14 | 6.69 | 4.54 | 20.91 |
| 760.00 | 3.42 | 0.39 | 26.85 | 6.95 | 4.79 | 20.89 |
| 780.00 | 3.41 | 0.38 | 26.85 | 7.05 | 4.90 | 21.01 |
| 800.00 | 3.41 | 0.38 | 26.72 | 7.21 | 5.06 | 21.07 |
| 820.00 | 3.40 | 0.37 | 26.81 | 7.27 | 5.12 | 21.23 |
| 840.00 | 3.39 | 0.36 | 27.09 | 7.22 | 5.07 | 21.48 |
| 860.00 | 3.39 | 0.35 | 27.57 | 7.08 | 4.93 | 21.83 |
| 880.00 | 3.38 | 0.34 | 27.94 | 6.99 | 4.83 | 22.12 |
| 900.00 | 3.38 | 0.33 | 27.80 | 7.15 | 5.00 | 22.16 |
| 920.00 | 3.37 | 0.33 | 28.17 | 7.05 | 4.90 | 22.45 |
| 940.00 | 3.36 | 0.32 | 27.91 | 7.27 | 5.12 | 22.42 |
| 960.00 | 3.36 | 0.31 | 27.70 | 7.46 | 5.31 | 22.41 |
| 980.00 | 3.35 | 0.31 | 28.16 | 7.31 | 5.16 | 22.73 |
| 1000.00 | 3.35 | 0.30 | 28.21 | 7.37 | 5.22 | 22.85 |
| 1100.00 | 3.33 | 0.27 | 29.97 | 6.87 | 4.72 | 24.17 |
| 1200.00 | 3.31 | 0.25 | 29.59 | 7.42 | 5.27 | 24.38 |
| 1300.00 | 3.30 | 0.23 | 31.82 | 6.63 | 4.48 | 25.87 |
| 1400.00 | 3.29 | 0.21 | 30.44 | 7.63 | 5.48 | 25.51 |
| 1500.00 | 3.28 | 0.20 | 32.15 | 7.06 | 4.91 | 26.68 |
| 1600.00 | 3.27 | 0.19 | 32.65 | 7.08 | 4.93 | 27.23 |
| 1700.00 | 3.26 | 0.18 | 32.29 | 7.51 | 5.36 | 27.32 |
| 1800.00 | 3.25 | 0.17 | 34.70 | 6.54 | 4.39 | 28.78 |
| 1900.00 | 3.24 | 0.16 | 35.28 | 6.48 | 4.33 | 29.32 |
| 2000.00 | 3.24 | 0.15 | 33.67 | 7.50 | 5.35 | 28.74 |
| 2100.00 | 3.23 | 0.14 | 35.01 | 7.03 | 4.88 | 29.63 |
| 2200.00 | 3.23 | 0.14 | 37.02 | 6.22 | 4.07 | 30.84 |
| 2300.00 | 3.22 | 0.13 | 38.30 | 5.77 | 3.62 | 31.68 |
| 2400.00 | 3.22 | 0.13 | 39.68 | 5.26 | 3.11 | 32.56 |
| 2500.00 | 3.22 | 0.12 | 39.18 | 5.68 | 3.53 | 32.50 |
| 2600.00 | 3.21 | 0.12 | 40.40 | 5.24 | 3.09 | 33.28 |
| 2700.00 | 3.21 | 0.11 | 41.30 | 4.95 | 2.80 | 33.90 |
| 2800.00 | 3.21 | 0.11 | 40.76 | 5.37 | 3.22 | 33.79 |
| 2900.00 | 3.20 | 0.10 | 40.62 | 5.59 | 3.44 | 33.88 |
| 3000.00 | 3.20 | 0.10 | 40.67 | 5.71 | 3.56 | 34.05 |
| 3200.00 | 3.20 | 0.09 | 44.27 | 4.18 | 2.03 | 36.14 |
| 3400.00 | 3.19 | 0.09 | 45.09 | 4.03 | 1.88 | 36.82 |
| 3600.00 | 3.19 | 0.08 | 44.37 | 4.63 | 2.48 | 36.71 |
| 3800.00 | 3.18 | 0.08 | 46.91 | 3.59 | 1.44 | 38.22 |
| 4000.00 | 3.18 | 0.08 | 44.92 | 4.81 | 2.66 | 37.45 |
| <i>Frequency</i> | <i>Distance</i> | <i>Wavelength</i> | <i>Attenuation</i> | <i>Gain(Isotr.)</i> | <i>Gain(Dipole)</i> | <i>Ant.-Factor</i> |
| MHz | m | m | dB | dBi | dBd | dB/m |