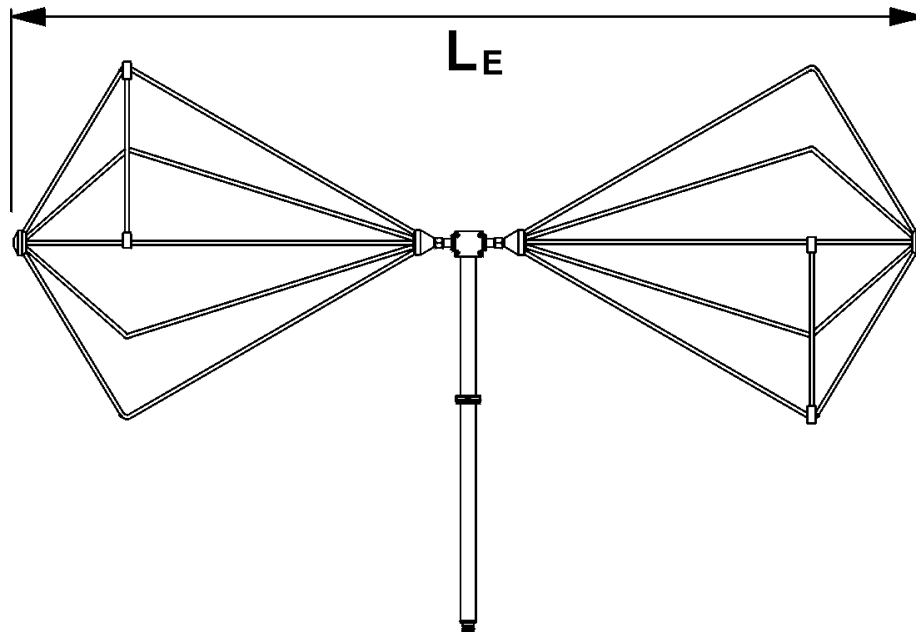


SCHWARZBECK MESS - ELEKTRONIK

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

BBAK 9137 Bikonuselemente in Balun / Halterung VHBB 9124 BBAK 9137 Biconical Elements in Balun VHBB 9124



Techn. Daten

BBAK 9137 in VHBB 9124

Specification:

| | |
|---------------------------|---------------|
| Frequenzbereich: | 45-450 MHz |
| Max. Eingangsleistung: | 10 W |
| Antennenfaktor: | 12...26 dB/m |
| Isotropgewinn: | -13...1.8 dBi |
| Polarisation: | linear |
| Kreuzpolarisation: | >20 dB |
| Elementlänge LE (gesamt): | 0.92 m |
| Konusdurchmesser: | 0.35 m |
| Elementaufnahme: | 10 mm |
| Gesamtlänge Halterung: | 0.53 m |
| Rohrdurchmesser Halter: | 22 mm |
| Anschlußbuchse: | N |
| Gewicht: | 1.8 kg |

| | |
|----------------------------|--|
| Frequency Range: | |
| Max. Input Power: | |
| Antenna Factor: | |
| Isotropic Gain: | |
| Polarisation: | |
| Cross Polarisation: | |
| Element Length LE (total): | |
| Cone Diameter: | |
| Element Fixture: | |
| Holder Length (total): | |
| Holder Tube Diameter: | |
| Connector (female): | |
| Weight: | |

Kurzbeschreibung

Bikonusanntennen haben ähnliche Eigenschaften wie abgestimmte Halbwellendipole (Rundstrahlcharakteristik in der H-Ebene, "8"-er Charakteristik in der E-Ebene, festes Phasenzentrum, vergleichbarer Gewinn), wobei durch die charakteristische Form der Doppelkonus-Elemente eine recht große Bandbreite erreicht wird.

Brief description

Biconical Antennas have dipole-like characteristics (e.g. circular directional pattern in the H-plane, "8"-shaped in the E-plane, fixed phase center, comparable gain), with an enormous wide bandwidth, achieved by the double cone elements.

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| Frequency | Gain(Isotr.) 3 m | Ant.-Factor 3 m |
|-----------|---------------------|--------------------|
| MHz | dBi | dB/m |
| 30.00 | -20.10 | 19.86 |
| 32.00 | -19.30 | 19.62 |
| 34.00 | -18.30 | 19.15 |
| 36.00 | -17.17 | 18.52 |
| 38.00 | -16.14 | 17.96 |
| 40.00 | -15.17 | 17.44 |
| 42.00 | -14.25 | 16.94 |
| 44.00 | -13.43 | 16.52 |
| 46.00 | -12.63 | 16.11 |
| 48.00 | -11.78 | 15.63 |
| 50.00 | -11.13 | 15.33 |
| 52.00 | -10.58 | 15.12 |
| 54.00 | -10.10 | 14.97 |
| 56.00 | -9.78 | 14.96 |
| 58.00 | -9.29 | 14.77 |
| 60.00 | -8.75 | 14.54 |
| 62.00 | -8.05 | 14.12 |
| 64.00 | -7.48 | 13.82 |
| 66.00 | -7.01 | 13.62 |
| 68.00 | -6.66 | 13.53 |
| 70.00 | -6.29 | 13.41 |
| 72.00 | -5.95 | 13.32 |
| 74.00 | -5.58 | 13.18 |
| 76.00 | -5.23 | 13.06 |
| 78.00 | -4.98 | 13.04 |
| 80.00 | -4.58 | 12.86 |
| 82.00 | -4.19 | 12.69 |
| 84.00 | -3.82 | 12.53 |
| 86.00 | -3.57 | 12.48 |
| 88.00 | -3.23 | 12.34 |
| 90.00 | -2.94 | 12.24 |
| 92.00 | -2.66 | 12.16 |
| 94.00 | -2.54 | 12.23 |
| 96.00 | -2.34 | 12.20 |
| 98.00 | -2.23 | 12.27 |
| 100.00 | -2.09 | 12.31 |
| 102.00 | -2.07 | 12.46 |
| 104.00 | -1.89 | 12.45 |
| 106.00 | -1.67 | 12.40 |
| 108.00 | -1.34 | 12.23 |
| 110.00 | -1.02 | 12.07 |
| 112.00 | -0.80 | 12.00 |
| 114.00 | -0.57 | 11.93 |
| 116.00 | -0.48 | 11.99 |
| 118.00 | -0.30 | 11.96 |
| 120.00 | -0.25 | 12.05 |
| 122.00 | -0.22 | 12.17 |
| 124.00 | -0.23 | 12.31 |
| 126.00 | -0.26 | 12.48 |
| 128.00 | -0.21 | 12.57 |

| Frequency | Gain(Isotr.) 3 m | Ant.-Factor 3 m |
|-----------|---------------------|--------------------|
| MHz | dBi | dB/m |
| 130.00 | -0.21 | 12.70 |
| 132.00 | -0.03 | 12.66 |
| 134.00 | 0.08 | 12.69 |
| 136.00 | 0.17 | 12.72 |
| 138.00 | 0.24 | 12.78 |
| 140.00 | 0.33 | 12.82 |
| 142.00 | 0.44 | 12.83 |
| 144.00 | 0.50 | 12.89 |
| 146.00 | 0.59 | 12.92 |
| 148.00 | 0.63 | 12.99 |
| 150.00 | 0.65 | 13.09 |
| 152.00 | 0.72 | 13.14 |
| 154.00 | 0.80 | 13.17 |
| 156.00 | 0.87 | 13.21 |
| 158.00 | 0.91 | 13.28 |
| 160.00 | 1.02 | 13.28 |
| 162.00 | 1.06 | 13.35 |
| 164.00 | 1.03 | 13.48 |
| 166.00 | 0.95 | 13.67 |
| 168.00 | 0.96 | 13.77 |
| 170.00 | 1.05 | 13.78 |
| 172.00 | 1.17 | 13.76 |
| 174.00 | 1.26 | 13.77 |
| 176.00 | 1.35 | 13.78 |
| 178.00 | 1.48 | 13.75 |
| 180.00 | 1.58 | 13.74 |
| 182.00 | 1.68 | 13.74 |
| 184.00 | 1.66 | 13.86 |
| 186.00 | 1.71 | 13.90 |
| 188.00 | 1.71 | 14.00 |
| 190.00 | 1.71 | 14.09 |
| 192.00 | 1.61 | 14.27 |
| 194.00 | 1.57 | 14.41 |
| 196.00 | 1.51 | 14.56 |
| 198.00 | 1.48 | 14.68 |
| 200.00 | 1.46 | 14.78 |
| 202.00 | 1.50 | 14.83 |
| 204.00 | 1.57 | 14.84 |
| 206.00 | 1.68 | 14.82 |
| 208.00 | 1.67 | 14.91 |
| 210.00 | 1.73 | 14.93 |
| 212.00 | 1.69 | 15.06 |
| 214.00 | 1.81 | 15.02 |
| 216.00 | 1.75 | 15.16 |
| 218.00 | 1.75 | 15.24 |
| 220.00 | 1.65 | 15.42 |
| 222.00 | 1.64 | 15.51 |
| 224.00 | 1.59 | 15.64 |
| 226.00 | 1.60 | 15.70 |
| 228.00 | 1.63 | 15.75 |

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BBAK 9137 Bikonuselemente in Balun / Halterung VHBB 9124 **BBAK 9137 Biconical Elements in Balun VHBB 9124**

| Frequency | Gain(Isotr.) 3 m | Ant.-Factor 3 m |
|-----------|---------------------|--------------------|
| MHz | dBi | dB/m |
| 230.00 | 1.61 | 15.84 |
| 232.00 | 1.52 | 16.01 |
| 234.00 | 1.48 | 16.13 |
| 236.00 | 1.41 | 16.27 |
| 238.00 | 1.50 | 16.26 |
| 240.00 | 1.43 | 16.40 |
| 242.00 | 1.42 | 16.48 |
| 244.00 | 1.30 | 16.67 |
| 246.00 | 1.33 | 16.70 |
| 248.00 | 1.38 | 16.73 |
| 250.00 | 1.43 | 16.75 |
| 252.00 | 1.43 | 16.82 |
| 254.00 | 1.39 | 16.92 |
| 256.00 | 1.35 | 17.03 |
| 258.00 | 1.34 | 17.11 |
| 260.00 | 1.32 | 17.20 |
| 262.00 | 1.23 | 17.36 |
| 264.00 | 1.12 | 17.54 |
| 266.00 | 1.04 | 17.67 |
| 268.00 | 1.07 | 17.72 |
| 270.00 | 0.99 | 17.86 |
| 272.00 | 0.97 | 17.94 |
| 274.00 | 1.00 | 17.98 |
| 276.00 | 1.09 | 17.95 |
| 278.00 | 1.12 | 17.98 |
| 280.00 | 1.08 | 18.08 |
| 282.00 | 1.09 | 18.14 |
| 284.00 | 1.14 | 18.14 |
| 286.00 | 1.14 | 18.21 |
| 288.00 | 1.11 | 18.29 |
| 290.00 | 1.05 | 18.42 |
| 292.00 | 1.06 | 18.47 |
| 294.00 | 1.05 | 18.54 |
| 296.00 | 1.01 | 18.63 |
| 298.00 | 0.88 | 18.83 |
| 300.00 | 0.82 | 18.94 |
| 302.00 | 0.85 | 18.97 |
| 304.00 | 0.88 | 18.99 |
| 306.00 | 0.81 | 19.12 |
| 308.00 | 0.73 | 19.26 |
| 310.00 | 0.74 | 19.30 |
| 312.00 | 0.78 | 19.32 |
| 314.00 | 0.78 | 19.38 |
| 316.00 | 0.75 | 19.46 |
| 318.00 | 0.74 | 19.53 |
| 320.00 | 0.70 | 19.62 |
| 322.00 | 0.68 | 19.69 |
| 324.00 | 0.61 | 19.82 |
| 326.00 | 0.57 | 19.91 |
| 328.00 | 0.52 | 20.01 |
| 330.00 | 0.44 | 20.15 |

| Frequency | Gain(Isotr.) 3 m | Ant.-Factor 3 m |
|-----------|---------------------|--------------------|
| MHz | dBi | dB/m |
| 332.00 | 0.32 | 20.32 |
| 334.00 | 0.20 | 20.50 |
| 336.00 | 0.10 | 20.65 |
| 338.00 | 0.08 | 20.72 |
| 340.00 | 0.11 | 20.74 |
| 342.00 | 0.16 | 20.74 |
| 344.00 | 0.12 | 20.83 |
| 346.00 | 0.06 | 20.95 |
| 348.00 | 0.13 | 20.92 |
| 350.00 | 0.21 | 20.89 |
| 352.00 | 0.29 | 20.86 |
| 354.00 | 0.19 | 21.01 |
| 356.00 | 0.07 | 21.18 |
| 358.00 | -0.07 | 21.36 |
| 360.00 | -0.03 | 21.38 |
| 362.00 | -0.06 | 21.46 |
| 364.00 | -0.10 | 21.54 |
| 366.00 | -0.28 | 21.77 |
| 368.00 | -0.30 | 21.84 |
| 370.00 | -0.38 | 21.96 |
| 372.00 | -0.41 | 22.04 |
| 374.00 | -0.41 | 22.09 |
| 376.00 | -0.34 | 22.07 |
| 378.00 | -0.31 | 22.08 |
| 380.00 | -0.40 | 22.22 |
| 382.00 | -0.48 | 22.34 |
| 384.00 | -0.47 | 22.38 |
| 386.00 | -0.40 | 22.35 |
| 388.00 | -0.44 | 22.44 |
| 390.00 | -0.59 | 22.63 |
| 392.00 | -0.75 | 22.84 |
| 394.00 | -0.74 | 22.87 |
| 396.00 | -0.71 | 22.88 |
| 398.00 | -0.62 | 22.84 |
| 400.00 | -0.66 | 22.93 |
| 402.00 | -0.77 | 23.08 |
| 404.00 | -0.88 | 23.23 |
| 406.00 | -0.89 | 23.28 |
| 408.00 | -0.84 | 23.28 |
| 410.00 | -0.91 | 23.39 |
| 412.00 | -1.08 | 23.60 |
| 414.00 | -1.14 | 23.70 |
| 416.00 | -1.22 | 23.82 |
| 418.00 | -1.19 | 23.84 |
| 420.00 | -1.26 | 23.95 |
| 422.00 | -1.32 | 24.04 |
| 424.00 | -1.41 | 24.18 |
| 426.00 | -1.55 | 24.36 |
| 428.00 | -1.61 | 24.46 |
| 430.00 | -1.63 | 24.52 |
| 432.00 | -1.66 | 24.59 |

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| Frequency | Gain(Isotr.) 3 m | Ant.-Factor 3 m |
|-----------|---------------------|--------------------|
| MHz | dBi | dB/m |
| 434.00 | -1.76 | 24.73 |
| 436.00 | -2.01 | 25.02 |
| 438.00 | -2.26 | 25.31 |
| 440.00 | -2.53 | 25.61 |
| 442.00 | -2.80 | 25.93 |
| 444.00 | -3.03 | 26.20 |
| 446.00 | -3.08 | 26.29 |
| 448.00 | -3.02 | 26.26 |
| 450.00 | -2.99 | 26.27 |
| 452.00 | -3.02 | 26.34 |
| 454.00 | -3.14 | 26.50 |
| 456.00 | -3.21 | 26.61 |
| 458.00 | -3.32 | 26.75 |
| 460.00 | -3.45 | 26.93 |

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