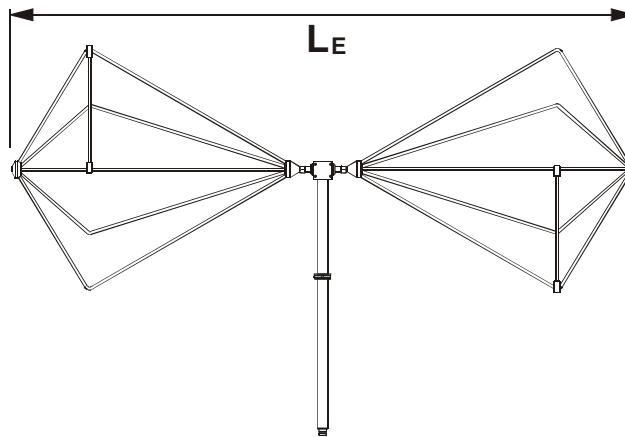


# SCHWARZBECK MESS - ELEKTRONIK

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

## BBAK 9137 Bikonuselemente in Balun / Halterung VHBA 9123 *BBAK 9137 Biconical Elements in Balun VHBA 9123*



### Techn. Daten

### BBAK 9137 in VHBA 9123

### Specification:

Frequenzbereich:	45-450 MHz
Max. Eingangsleistung:	100 W
Antennenfaktor:	12...27 dB/m
Isotropgewinn:	-12...1.8 dBi
Polarisation:	linear
Kreuzpolarisation:	>20 dB
Elementlänge LE (gesamt):	0.98 m
Konusdurchmesser:	0.35 m
Elementaufnahme:	10 mm
Gesamtlänge Halterung:	0.6 m
Rohrdurchmesser Halter:	22 mm
Anschlußbuchse:	N
Gewicht:	1.8 kg

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

### **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 Frequenz	Distance Abstand	Wavelength Wellenlänge	Attenuation Dämpfung	Gain(Isotr.) Isotropgewinn	Gain(Dipole) Gewinn über Dipol	Ant.-Factor Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
20.00	3.00	15.00	60.52	-26.26	-28.41	22.50
25.00	3.00	12.00	58.30	-24.18	-26.33	22.36
30.00	3.00	10.00	51.75	-20.11	-22.26	19.87
35.00	3.00	8.57	46.47	-16.80	-18.95	17.90
40.00	3.00	7.50	41.57	-13.77	-15.92	16.03
45.00	3.00	6.67	38.09	-11.52	-13.67	14.80
50.00	3.00	6.00	35.55	-9.79	-11.94	13.99
55.00	3.00	5.45	33.93	-8.57	-10.72	13.60
60.00	3.00	5.00	32.15	-7.30	-9.45	13.08
65.00	3.00	4.62	30.22	-5.99	-8.14	12.47
70.00	3.00	4.29	28.27	-4.69	-6.84	11.81
75.00	3.00	4.00	27.43	-3.97	-6.12	11.69
80.00	3.00	3.75	27.35	-3.65	-5.80	11.93
85.00	3.00	3.53	27.05	-3.24	-5.39	12.05
90.00	3.00	3.33	26.01	-2.47	-4.62	11.77
95.00	3.00	3.16	25.00	-1.73	-3.88	11.50
100.00	3.00	3.00	24.59	-1.30	-3.45	11.52
105.00	3.00	2.86	24.91	-1.25	-3.40	11.89
110.00	3.00	2.73	24.71	-0.95	-3.10	12.00
115.00	3.00	2.61	24.18	-0.49	-2.64	11.92
120.00	3.00	2.50	23.39	0.09	-2.06	11.71
125.00	3.00	2.40	23.14	0.39	-1.76	11.77
130.00	3.00	2.31	23.45	0.41	-1.74	12.09
135.00	3.00	2.22	23.65	0.47	-1.68	12.36
140.00	3.00	2.14	23.45	0.73	-1.42	12.41
145.00	3.00	2.07	23.21	1.00	-1.15	12.45
150.00	3.00	2.00	23.11	1.20	-0.95	12.54
155.00	3.00	1.94	23.37	1.21	-0.94	12.82
160.00	3.00	1.88	23.77	1.15	-1.00	13.15
165.00	3.00	1.82	24.34	1.00	-1.15	13.57
170.00	3.00	1.76	25.14	0.73	-1.42	14.10
175.00	3.00	1.71	25.51	0.67	-1.48	14.41
180.00	3.00	1.67	25.53	0.78	-1.37	14.55
185.00	3.00	1.62	25.65	0.84	-1.31	14.72
190.00	3.00	1.58	25.98	0.79	-1.36	15.01
195.00	3.00	1.54	27.19	0.30	-1.85	15.72
200.00	3.00	1.50	27.33	0.34	-1.81	15.90
205.00	3.00	1.46	27.40	0.41	-1.74	16.05
210.00	3.00	1.43	27.13	0.65	-1.50	16.01
215.00	3.00	1.40	27.78	0.43	-1.72	16.44
220.00	3.00	1.36	29.24	-0.20	-2.35	17.27
225.00	3.00	1.33	30.17	-0.57	-2.72	17.83
230.00	3.00	1.30	30.54	-0.66	-2.81	18.11
235.00	3.00	1.28	30.09	-0.34	-2.49	17.98
240.00	3.00	1.25	29.97	-0.19	-2.34	18.01
245.00	3.00	1.22	30.81	-0.52	-2.67	18.52
250.00	3.00	1.20	31.61	-0.83	-2.98	19.01
255.00	3.00	1.18	31.82	-0.85	-3.00	19.20

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MHz	m	m	dB	dBi	dBd	dB/m
Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellenlänge	Dämpfung	Isotropgewinn	Gewinn über Dipol	Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
260.00	3.00	1.15	30.77	-0.24	-2.39	18.76
265.00	3.00	1.13	30.05	0.20	-1.95	18.48
270.00	3.00	1.11	30.33	0.14	-2.01	18.71
275.00	3.00	1.09	31.27	-0.25	-2.40	19.26
280.00	3.00	1.07	31.79	-0.43	-2.58	19.59
285.00	3.00	1.05	31.42	-0.17	-2.32	19.49
290.00	3.00	1.03	31.35	-0.06	-2.21	19.53
295.00	3.00	1.02	32.24	-0.43	-2.58	20.05
300.00	3.00	1.00	34.09	-1.28	-3.43	21.04
305.00	3.00	0.98	35.51	-1.92	-4.07	21.83
310.00	3.00	0.97	36.71	-2.45	-4.60	22.50
315.00	3.00	0.95	37.51	-2.78	-4.93	22.97
320.00	3.00	0.94	37.81	-2.86	-5.01	23.18
325.00	3.00	0.92	36.76	-2.27	-4.42	22.73
330.00	3.00	0.91	35.76	-1.70	-3.85	22.29
335.00	3.00	0.90	34.95	-1.23	-3.38	21.95
340.00	3.00	0.88	34.54	-0.96	-3.11	21.81
345.00	3.00	0.87	34.42	-0.84	-2.99	21.82
350.00	3.00	0.86	34.43	-0.78	-2.93	21.88
355.00	3.00	0.85	34.57	-0.79	-2.94	22.01
360.00	3.00	0.83	34.73	-0.81	-2.96	22.16
365.00	3.00	0.82	34.67	-0.72	-2.87	22.19
370.00	3.00	0.81	35.07	-0.86	-3.01	22.44
375.00	3.00	0.80	35.45	-0.99	-3.14	22.69
380.00	3.00	0.79	35.90	-1.16	-3.31	22.98
385.00	3.00	0.78	35.84	-1.07	-3.22	23.00
390.00	3.00	0.77	35.77	-0.98	-3.13	23.02
395.00	3.00	0.76	36.42	-1.25	-3.40	23.40
400.00	3.00	0.75	36.97	-1.47	-3.62	23.73
405.00	3.00	0.74	36.84	-1.35	-3.50	23.72
410.00	3.00	0.73	36.54	-1.15	-3.30	23.63
415.00	3.00	0.72	37.43	-1.54	-3.69	24.12
420.00	3.00	0.71	38.95	-2.25	-4.40	24.93
425.00	3.00	0.71	40.61	-3.03	-5.18	25.82
430.00	3.00	0.70	40.36	-2.85	-5.00	25.74
435.00	3.00	0.69	40.10	-2.67	-4.82	25.66
440.00	3.00	0.68	40.14	-2.64	-4.79	25.73
445.00	3.00	0.67	41.79	-3.42	-5.57	26.61
450.00	3.00	0.67	43.09	-4.02	-6.17	27.30
MHz	m	m	dB	dBi	dBd	dB/m

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