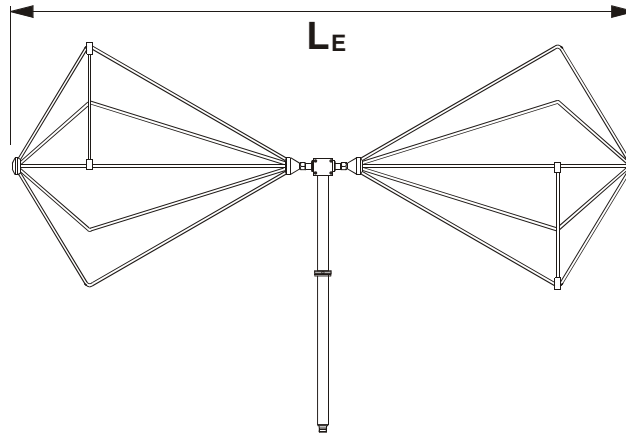


# SCHWARZBECK MESS - ELEKTRONIK

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

## BBAK 9137 Bikonuselemente in Balun / Halterung VHA 9103 BBAK 9137 Biconical Elements in Balun VHA 9103



### Techn. Daten

### BBAK 9137 in VHA 9103

### Specification:

Frequenzbereich:	45-450 MHz
Max. Eingangsleistung:	10 W
Antennenfaktor:	9...24 dB/m
Isotropgewinn:	-17...1.5 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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### BBAK 9137 Biconical Elements in Balun VHA 9103

[70609 gs]

Free-Space Calibration,  $\Delta AF < \pm 0,7\text{dB}$ , 50 ohm test system, far-field > 3m

Frequency	Distance	lambda	Attenuat.	Gain (Isotr.)	Gain dipole	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m
25.00	10.00	12.00	77.60	-28.60	-30.75	26.78
30.00	10.00	10.00	72.90	-25.46	-27.61	25.22
35.00	10.00	8.57	68.27	-22.47	-24.62	23.57
40.00	10.00	7.50	63.60	-19.56	-21.71	21.82
45.00	10.00	6.67	59.56	-17.03	-19.18	20.31
50.00	10.00	6.00	56.80	-15.19	-17.34	19.39
55.00	10.00	5.45	53.97	-13.36	-15.51	18.39
60.00	10.00	5.00	50.81	-11.40	-13.55	17.19
65.00	10.00	4.62	46.42	-8.86	-11.01	15.34
70.00	10.00	4.29	43.35	-7.00	-9.15	14.12
75.00	10.00	4.00	40.94	-5.50	-7.65	13.22
80.00	10.00	3.75	39.27	-4.38	-6.53	12.66
85.00	10.00	3.53	35.79	-2.38	-4.53	11.19
90.00	10.00	3.33	33.08	-0.78	-2.93	10.08
95.00	10.00	3.16	30.78	0.61	-1.54	9.17
100.00	10.00	3.00	30.39	1.03	-1.12	9.19
110.00	10.00	2.73	30.36	1.46	-0.70	9.59
120.00	10.00	2.50	31.09	1.47	-0.68	10.34
130.00	10.00	2.31	34.03	0.35	-1.81	12.15
140.00	10.00	2.14	35.42	-0.03	-2.18	13.17
150.00	10.00	2.00	36.77	-0.40	-2.55	14.14
160.00	10.00	1.88	38.18	-0.83	-2.98	15.13
170.00	10.00	1.76	38.62	-0.78	-2.94	15.61
180.00	10.00	1.67	39.60	-1.03	-3.18	16.35
190.00	10.00	1.58	39.91	-0.95	-3.10	16.74
200.00	10.00	1.50	39.77	-0.65	-2.80	16.89
225.00	10.00	1.33	40.54	-0.53	-2.68	17.79
250.00	10.00	1.20	41.44	-0.52	-2.67	18.70
275.00	10.00	1.09	41.63	-0.20	-2.35	19.21
300.00	10.00	1.00	41.78	0.10	-2.05	19.66
325.00	10.00	0.92	41.60	0.54	-1.61	19.92
350.00	10.00	0.86	41.62	0.85	-1.30	20.25
375.00	10.00	0.80	42.40	0.76	-1.39	20.94
400.00	10.00	0.75	43.48	0.50	-1.65	21.76
425.00	10.00	0.71	45.00	0.01	-2.15	22.78
450.00	10.00	0.67	47.62	-1.06	-3.21	24.34
475.00	10.00	0.63	51.80	-2.91	-5.06	26.67
500.00	10.00	0.60	52.95	-3.26	-5.41	27.46
MHz	m	m	dB	dBi	dBd	dB/m

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