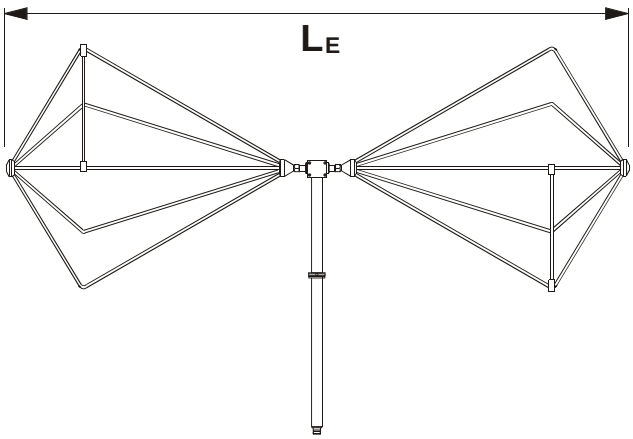
SCHWARZBECK MESS - ELEKTRONIK

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	*Frequency Range:*
Max. Eingangsleistung:	10 W	*Max. Input Power:*
Antennenfaktor:	12...26 dB/m	*Antenna Factor:*
Isotropgewinn:	-13...1.8 dBi	*Isotropic Gain:*
Polarisation:	linear	*Polarisation:*
Kreuzpolarisation:	>20 dB	*Cross Polarisation:*
Elementlänge LE (gesamt):	0.92 m	*Element Length LE (total):*
Konusdurchmesser:	0.35 m	*Cone Diameter:*
Elementaufnahme:	10 mm	*Element Fixture:*
Gesamtlänge Halterung:	0.53 m	*Holder Length (total):*
Rohrdurchmesser Halter:	22 mm	*Holder Tube Diameter:*
Anschlußbuchse:	N	*Connector (female):*
Gewicht:	1.8 kg	*Weight:*

Kurzbeschreibung

Bikonusantennen 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 enourmous wide bandwidth, achieved by the double cone elements.

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Free-Space Calibration, ΔAF < ± 0,7dB, 50 ohm test system, far-field > 3m

Frequency	Distance	lambda	Attenuation	Gain (Isotr.)	Gain (Dipole)	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m
20.00	10.00	15.00	70.70	-26.12	-28.27	22.36
25.00	10.00	12.00	65.73	-22.66	-24.82	20.84
30.00	10.00	10.00	62.00	-20.01	-22.16	19.77
35.00	10.00	8.57	57.80	-17.24	-19.39	18.34
40.00	10.00	7.50	53.56	-14.54	-16.69	16.80
45.00	10.00	6.67	50.83	-12.66	-14.81	15.95
50.00	10.00	6.00	49.05	-11.31	-13.47	15.51
55.00	10.00	5.45	47.36	-10.06	-12.21	15.08
60.00	10.00	5.00	45.62	-8.81	-10.96	14.59
65.00	10.00	4.62	42.66	-6.98	-9.13	13.46
70.00	10.00	4.29	41.28	-5.97	-8.12	13.09
75.00	10.00	4.00	40.80	-5.43	-7.58	13.15
80.00	10.00	3.75	40.67	-5.08	-7.23	13.36
85.00	10.00	3.53	38.94	-3.95	-6.11	12.76
90.00	10.00	3.33	37.46	-2.97	-5.12	12.27
95.00	10.00	3.16	36.29	-2.15	-4.30	11.92
100.00	10.00	3.00	36.40	-1.98	-4.13	12.20
110.00	10.00	2.73	35.45	-1.09	-3.24	12.14
120.00	10.00	2.50	34.30	-0.14	-2.29	11.94
130.00	10.00	2.31	34.93	-0.10	-2.26	12.60
140.00	10.00	2.14	34.30	0.53	-1.62	12.61
150.00	10.00	2.00	34.77	0.60	-1.55	13.14
160.00	10.00	1.88	34.57	0.98	-1.17	13.32
170.00	10.00	1.76	34.46	1.30	-0.86	13.53
180.00	10.00	1.67	34.86	1.34	-0.81	13.98
190.00	10.00	1.58	34.88	1.57	-0.58	14.23
200.00	10.00	1.50	34.92	1.77	-0.38	14.47
225.00	10.00	1.33	36.12	1.68	-0.47	15.58
250.00	10.00	1.20	37.81	1.30	-0.86	16.88
275.00	10.00	1.09	38.88	1.17	-0.98	17.83
300.00	10.00	1.00	40.28	0.85	-1.30	18.91
325.00	10.00	0.92	41.69	0.50	-1.66	19.96
350.00	10.00	0.86	42.46	0.43	-1.72	20.67
375.00	10.00	0.80	44.03	-0.05	-2.20	21.75
400.00	10.00	0.75	45.22	-0.37	-2.52	22.63
425.00	10.00	0.71	47.46	-1.22	-3.38	24.01
450.00	10.00	0.67	50.91	-2.70	-4.85	25.99
475.00	10.00	0.63	56.62	-5.32	-7.47	29.08
500.00	10.00	0.60	57.84	-5.71	-7.86	29.91
MHz	m	m	dB	dBi	dBd	dB/m

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