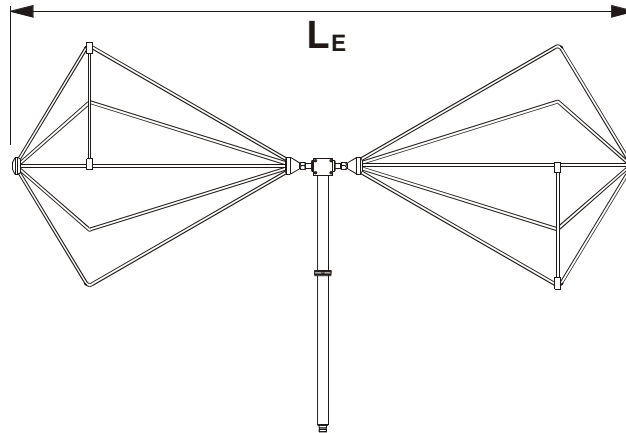


# SCHWARZBECK MESS - ELEKTRONIK

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

## BBVK 9138 Bikonuselemente in Balun / Halterung VHA 9103 BBVK 9138 Biconical Elements in Balun VHA 9103



### Techn. Daten

### BBVK 9138 in VHA 9103

### Specification:

Frequenzbereich:	60-600 MHz
Max. Eingangsleistung:	10 W
Antennenfaktor:	12...28 dB/m
Isotropgewinn:	-17...1.4 dBi
Polarisation:	linear
Kreuzpolarisation:	>20 dB
Elementlänge LE (gesamt):	0.72 m
Konusdurchmesser:	0.26 m
Elementaufnahme:	10 mm
Gesamtlänge Halterung:	0.53 m
Rohrdurchmesser Halter:	22 mm
Anschlußbuchse:	N
Gewicht:	1.6 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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60 - 600 MHz, max. 10 W

Frequency	Distance	lambda	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m
30.00	2.25	10.00	70.50	-30.73	-32.89	30.50
35.00	2.25	8.57	66.50	-28.06	-30.22	29.17
40.00	2.25	7.50	62.40	-25.44	-27.59	27.70
45.00	2.25	6.67	58.35	-22.90	-25.05	26.18
50.00	2.25	6.00	55.10	-20.82	-22.97	25.02
60.00	2.25	5.00	49.30	-17.12	-19.28	22.91
70.00	2.25	4.29	43.40	-13.51	-15.66	20.63
80.00	2.25	3.75	38.55	-10.50	-12.65	18.78
90.00	2.25	3.33	33.30	-7.36	-9.52	16.67
100.00	2.25	3.00	28.90	-4.71	-6.86	14.93
110.00	2.25	2.73	24.40	-2.04	-4.19	13.09
120.00	2.25	2.50	21.20	-0.07	-2.22	11.87
130.00	2.25	2.31	19.90	0.93	-1.22	11.57
140.00	2.25	2.14	19.70	1.35	-0.80	11.79
150.00	2.25	2.00	20.80	1.10	-1.05	12.64
160.00	2.25	1.88	22.15	0.71	-1.44	13.59
170.00	2.25	1.76	23.60	0.25	-1.90	14.58
180.00	2.25	1.67	24.80	-0.10	-2.26	15.43
190.00	2.25	1.58	25.80	-0.37	-2.52	16.16
200.00	2.25	1.50	26.60	-0.55	-2.70	16.79
210.00	2.25	1.43	27.40	-0.73	-2.89	17.40
220.00	2.25	1.36	27.90	-0.78	-2.93	17.85
230.00	2.25	1.30	28.50	-0.89	-3.04	18.34
240.00	2.25	1.25	29.04	-0.98	-3.13	18.80
250.00	2.25	1.20	29.35	-0.95	-3.10	19.13
260.00	2.25	1.15	29.97	-1.09	-3.24	19.61
270.00	2.25	1.11	30.30	-1.09	-3.24	19.94
280.00	2.25	1.07	30.65	-1.11	-3.26	20.27
290.00	2.25	1.03	31.00	-1.13	-3.28	20.60
300.00	2.25	1.00	31.26	-1.12	-3.27	20.88
325.00	2.25	0.92	31.54	-0.91	-3.06	21.37
350.00	2.25	0.86	31.60	-0.62	-2.77	21.72
375.00	2.25	0.80	31.90	-0.47	-2.62	22.17
400.00	2.25	0.75	32.24	-0.36	-2.51	22.62
425.00	2.25	0.71	32.53	-0.24	-2.39	23.03
450.00	2.25	0.67	33.04	-0.25	-2.40	23.53
475.00	2.25	0.63	33.36	-0.17	-2.32	23.92
500.00	2.25	0.60	33.60	-0.07	-2.22	24.27
525.00	2.25	0.57	34.50	-0.31	-2.46	24.93
550.00	2.25	0.55	36.05	-0.88	-3.03	25.91
575.00	2.25	0.52	38.50	-1.91	-4.06	27.32
600.00	2.25	0.50	40.70	-2.83	-4.98	28.61
650.00	2.25	0.46	45.10	-4.68	-6.83	31.16
MHz	m	m	dB	dBi	dBd	dB/m

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