

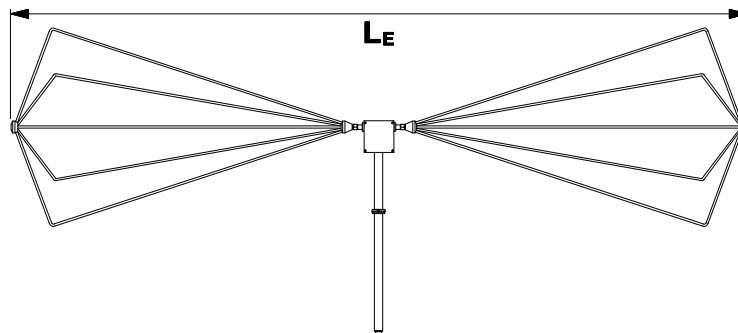
# SCHWARZBECK MESS - ELEKTRONIK

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

## VHBC 9133 Balun mit BBAL 9136 Bikonuselementen VHBC 9133 Balun with BBAL 9136 biconical elements

Freiraumdaten  $D > 3 \text{ m}$  (keine Bodenreflexion),  $L_E=1.94 \text{ m}$   
Free-Space Data, no ground refl.,  $D>3\text{m}$ ,  $L_E=1.94 \text{ m}$

Frequency	Distance	lambda	Attenuat.	Gain (Isotr)	Gain (dipole)	Ant.-Fctr.
MHz	m	m	dB	dBi	dBd	dB/m
20.00	4.00	15.00	41.29	-15.39	-17.54	11.63
25.00	4.00	12.00	31.10	-9.33	-11.48	7.51
27.00	4.00	11.11	29.60	-8.24	-10.40	7.09
30.00	4.00	10.00	28.33	-7.15	-9.30	6.91
35.00	4.00	8.57	26.04	-5.34	-7.49	6.44
40.00	4.00	7.50	24.42	-3.95	-6.10	6.21
45.00	4.00	6.67	22.11	-2.28	-4.43	5.56
50.00	4.00	6.00	21.05	-1.29	-3.44	5.49
55.00	4.00	5.45	20.16	-0.43	-2.59	5.46
60.00	4.00	5.00	20.28	-0.12	-2.27	5.90
65.00	4.00	4.62	19.75	0.50	-1.65	5.98
70.00	4.00	4.29	19.60	0.89	-1.26	6.23
75.00	4.00	4.00	19.39	1.30	-0.85	6.42
80.00	4.00	3.75	19.56	1.49	-0.66	6.79
85.00	4.00	3.53	20.16	1.46	-0.69	7.35
90.00	4.00	3.33	20.80	1.38	-0.77	7.92
95.00	4.00	3.16	21.36	1.34	-0.81	8.43
100.00	4.00	3.00	21.97	1.26	-0.89	8.96
110.00	4.00	2.73	23.33	0.99	-1.16	10.06
120.00	4.00	2.50	24.80	0.63	-1.52	11.17
125.00	4.00	2.40	24.82	0.80	-1.35	11.36
130.00	4.00	2.31	25.11	0.83	-1.32	11.67
140.00	4.00	2.14	25.21	1.10	-1.05	12.04
150.00	4.00	2.00	25.43	1.29	-0.86	12.45
160.00	4.00	1.88	25.48	1.54	-0.61	12.76
170.00	4.00	1.76	24.78	2.16	0.01	12.67
175.00	4.00	1.71	25.12	2.11	-0.04	12.97
180.00	4.00	1.67	25.30	2.15	-0.01	13.18
190.00	4.00	1.58	27.06	1.50	-0.65	14.29
200.00	4.00	1.50	28.40	1.05	-1.10	15.19
210.00	4.00	1.43	30.18	0.37	-1.78	16.29
220.00	4.00	1.36	33.48	-1.07	-3.22	18.14
225.00	4.00	1.33	37.30	-2.89	-5.04	20.15
230.00	4.00	1.30	39.31	-3.80	-5.95	21.25

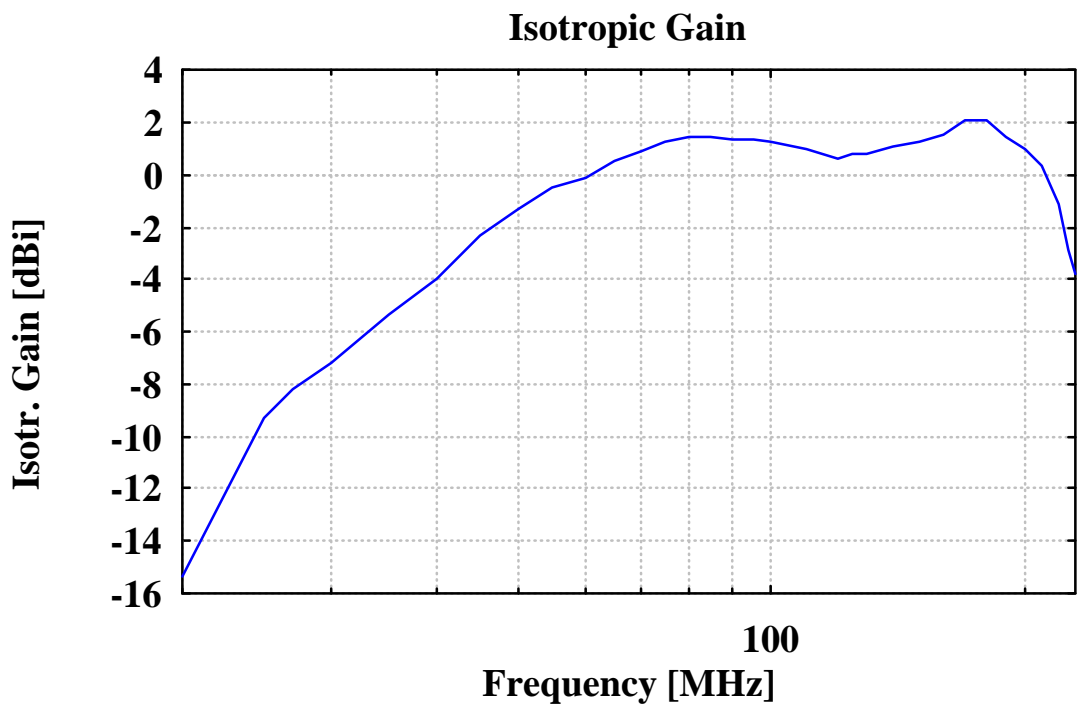
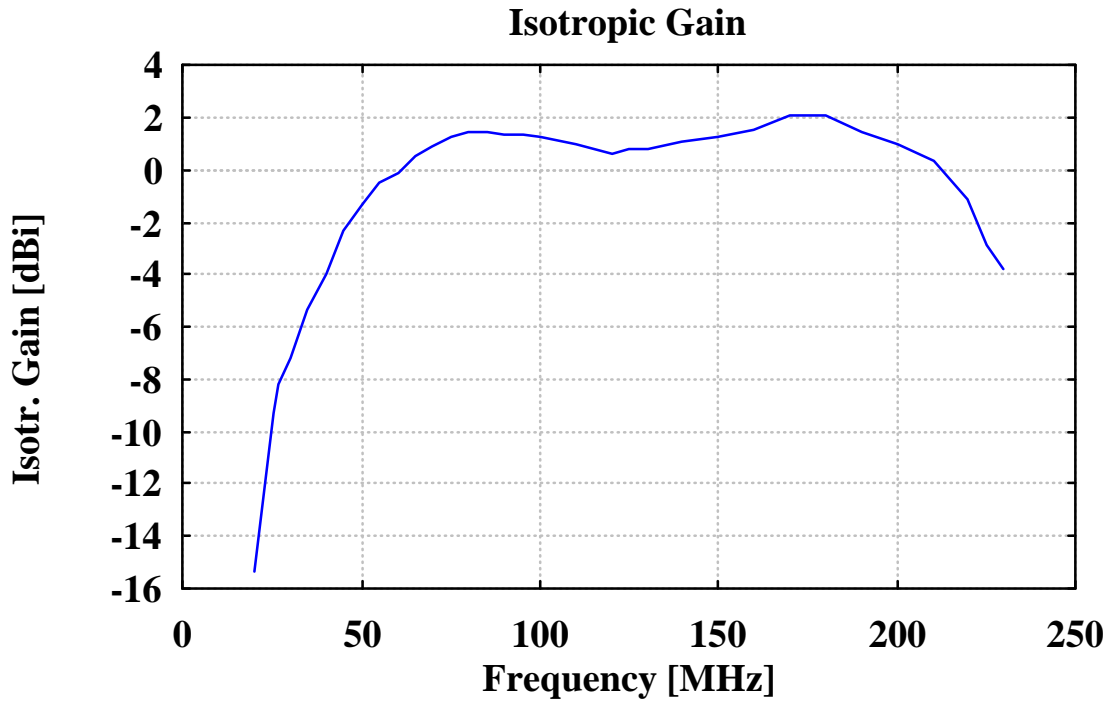


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Free-Space Data, no ground refl.,  $D > 3 \text{ m}$



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## VHBC 9133 Balun mit BBAL 9136 Bikonuselementen VHBC 9133 Balun with BBAL 9136 biconical elements

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Free-Space Data, no ground refl.,  $D > 3$  m

