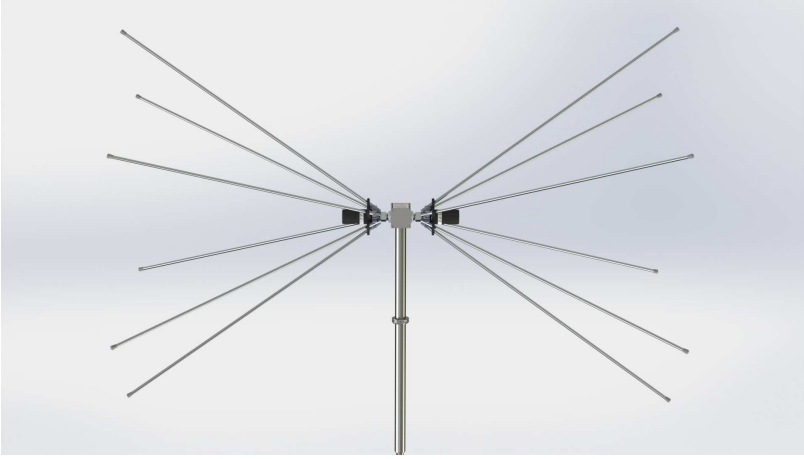
VHA 9103 Balun mit Faltbikonus-Elementen FBAB 9177
VHA 9103 Balun with Collapsible Cone Elements FBAB 9177



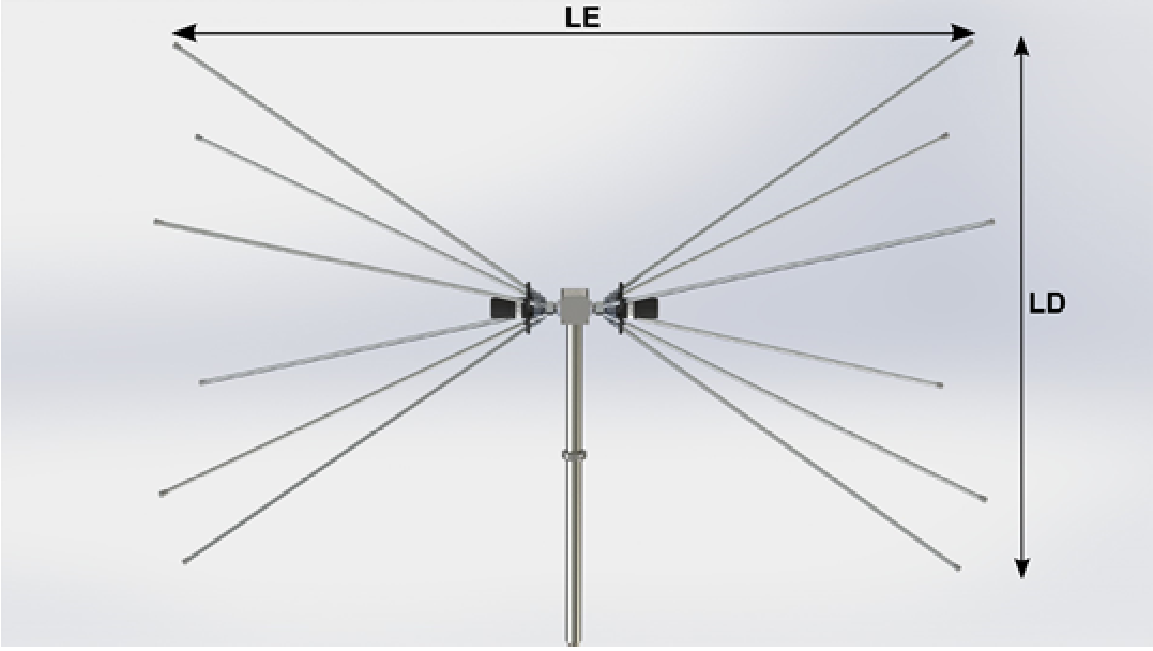
Beschreibung:

Der Antennenhalter / Balun VHA 9103 zusammen mit Faltkonus-Elementen FBAB 9177 haben ähnliche Eigenschaften wie Antennen mit Bikonuselementen BBA 9106 (Rundstrahlcharakteristik in der H-Ebene, „8"-er Charakteristik in der E-Ebene, festes Phasenzentrum und einen vergleichbaren Gewinn).
Faltkonus-Elemente lassen sich hingegen platzsparend zusammenfalten und nehmen so weniger Raum bei Transport und Lagerung ein.

Description:

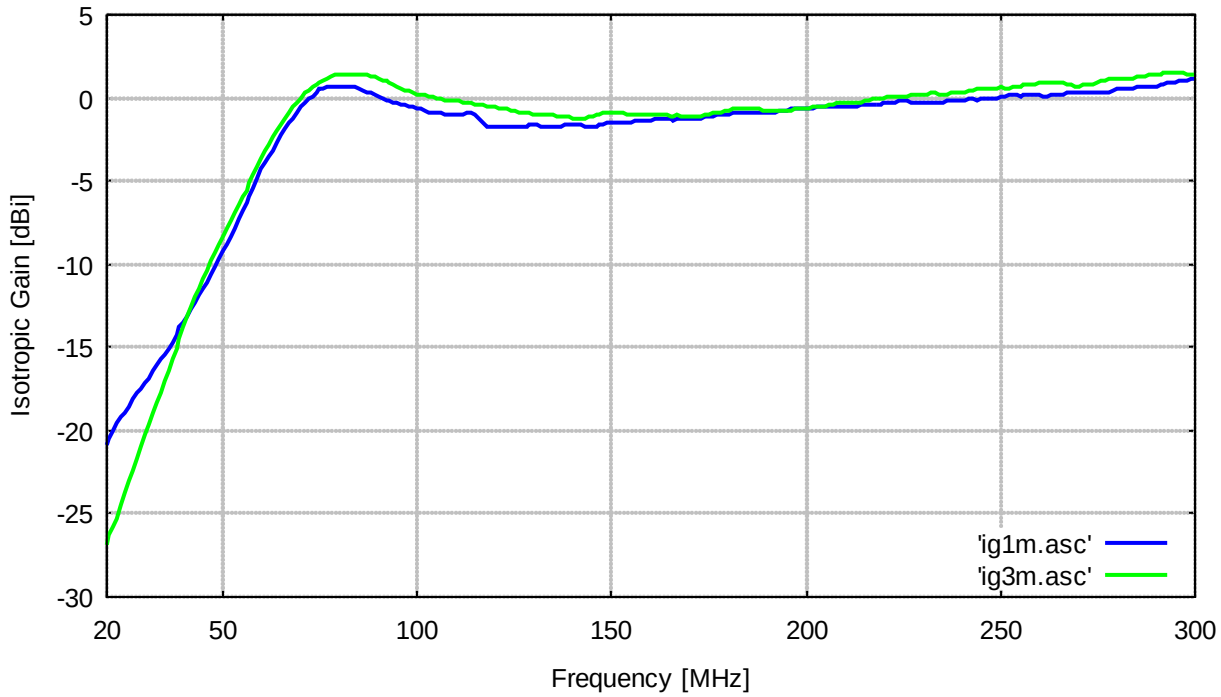
The Antenne Holder / Balun VHA 9103 together with the collapsible open conical elements FBAB 9177 have similar characteristics like antennas with biconical elements BBA 9106 (circular directional pattern in the H-plane. "8"-shaped in the E-plane, fixed phase-center and comparable gain).
The folded collapsible elements need less space during transport or storage than the biconical elements.

Technische Daten:	**VHA 9103 FBAB 9177**	***Specifications:***
Frequenzbereich:	30-300 MHz	*Frequency range:*
Anschluss:	50 Ω N	*Connector:*
Max. Leistung:	15 W	*Max. Power:*
Polarisation:	linear	*Polarisation:*
Strahlungscharakteristik:	omnidirektional *omnidirectional*	*Pattern type:*
Elementlänge LE mit FBAB 9177:	1.25 m	*Element length LE with FBAB 9177:*
Elementdurchmesser LD	0.60 m	*Element diameter LD:*
Länge / Durchmesser der Halterung:	0.58 m / 22 mm	*Holder length / diameter:*
Elementaufnahme:	10 mm	*Element fixture:*
Gewicht des Halters / Balun:	0.94 kg	*Holder / balun weight:*
Gewicht eines Elements:	0.45 kg	*Weight of one element:*
Befestigung:	22 mm Rohr mit Rastring *22 mm tube with indexing ring*	*Mounting:*
Empfohlene Mast-Adapter:	AA 9202, AA9202 POM, AA 9203, RA9215	*Recommended mast adapter:*

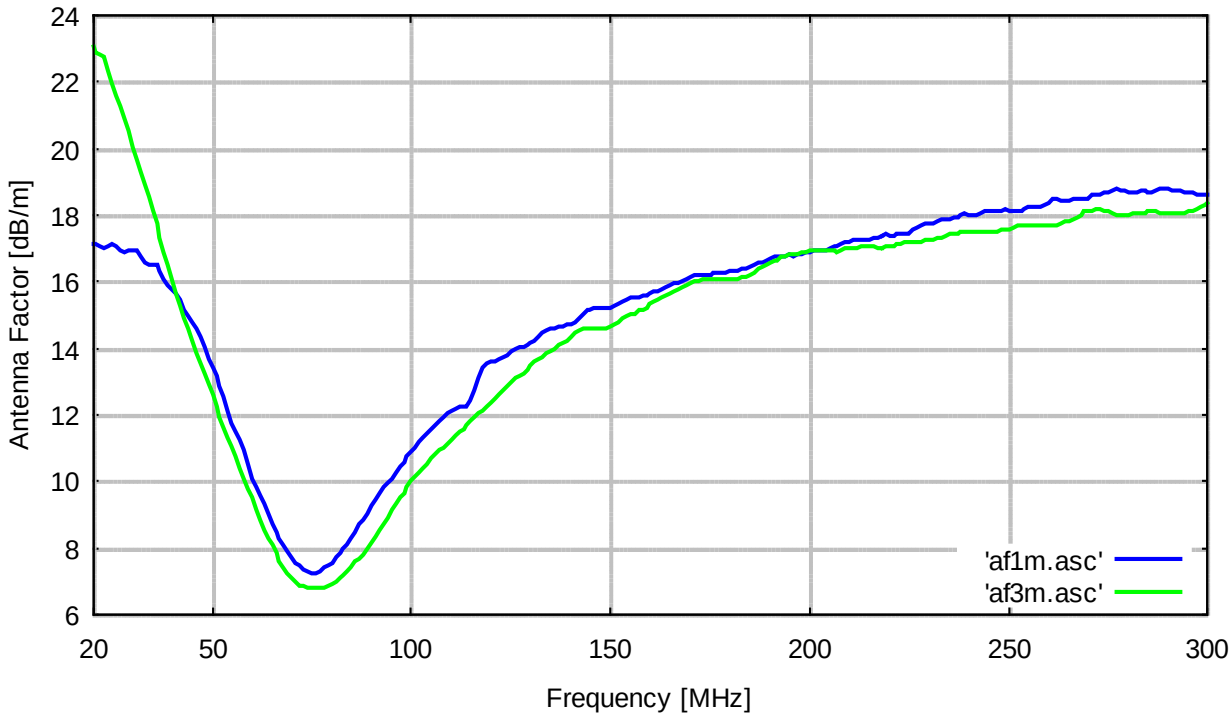


Folded elements FBAB 9177 in CCA transport case together with VHBB9124 Balun and UHALP 9108A log.-per antenna
Gefaltete Konus-Elemente FBAB 9177 in Transport-Koffer CCA zusammen mit VHBB 9124 Balun und UHALP 9108 A Log.-Per. Antenne

Isotropgewinn



Antennen-Wandlungsmaß



Frequency	Isotropic gain 1 m	Antenna factor 1 m	Isotropic gain 3 m	Antenna factor 3 m
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]
20.00	-20.88	17.12	-26.83	23.07
21.00	-20.48	17.14	-26.25	22.91
22.00	-19.97	17.04	-25.78	22.85
23.00	-19.54	16.99	-25.32	22.77
24.00	-19.24	17.06	-24.53	22.35
25.00	-18.92	17.10	-23.77	21.95
26.00	-18.54	17.06	-23.07	21.59
27.00	-18.10	16.95	-22.42	21.27
28.00	-17.74	16.90	-21.77	20.93
29.00	-17.45	16.92	-21.03	20.50
30.00	-17.20	16.96	-20.29	20.06
31.00	-16.87	16.92	-19.62	19.67
32.00	-16.42	16.74	-18.96	19.28
33.00	-16.01	16.60	-18.34	18.93
34.00	-15.69	16.54	-17.70	18.55
35.00	-15.44	16.54	-17.02	18.13
36.00	-15.15	16.50	-16.38	17.72
37.00	-14.73	16.31	-15.73	17.31
38.00	-14.25	16.07	-15.10	16.91
39.00	-13.82	15.86	-14.46	16.50
40.00	-13.50	15.76	-13.79	16.06
41.00	-13.17	15.65	-13.14	15.62
42.00	-12.75	15.43	-12.58	15.27
43.00	-12.29	15.18	-12.02	14.91
44.00	-11.85	14.94	-11.48	14.57
45.00	-11.47	14.75	-10.93	14.21
46.00	-11.11	14.59	-10.38	13.85
47.00	-10.68	14.34	-9.86	13.52
48.00	-10.17	14.01	-9.37	13.22
49.00	-9.65	13.67	-8.89	12.91
50.00	-9.20	13.40	-8.39	12.59
51.00	-8.79	13.16	-7.88	12.25
52.00	-8.35	12.89	-7.37	11.91
53.00	-7.83	12.54	-6.89	11.60
54.00	-7.26	12.13	-6.44	11.31
55.00	-6.74	11.77	-6.01	11.04
56.00	-6.32	11.50	-5.56	10.74
57.00	-5.94	11.28	-5.06	10.40
58.00	-5.45	10.94	-4.59	10.08
59.00	-4.88	10.52	-4.15	9.78
60.00	-4.32	10.10	-3.71	9.49
61.00	-3.88	9.81	-3.24	9.17
62.00	-3.52	9.59	-2.77	8.84
63.00	-3.13	9.34	-2.34	8.54
64.00	-2.68	9.02	-1.96	8.30
65.00	-2.22	8.70	-1.60	8.07
66.00	-1.85	8.46	-1.23	7.85
67.00	-1.54	8.28	-0.87	7.61
68.00	-1.24	8.11	-0.52	7.39
69.00	-0.90	7.90	-0.25	7.25
70.00	-0.58	7.70	0.00	7.12
71.00	-0.32	7.57	0.25	7.00

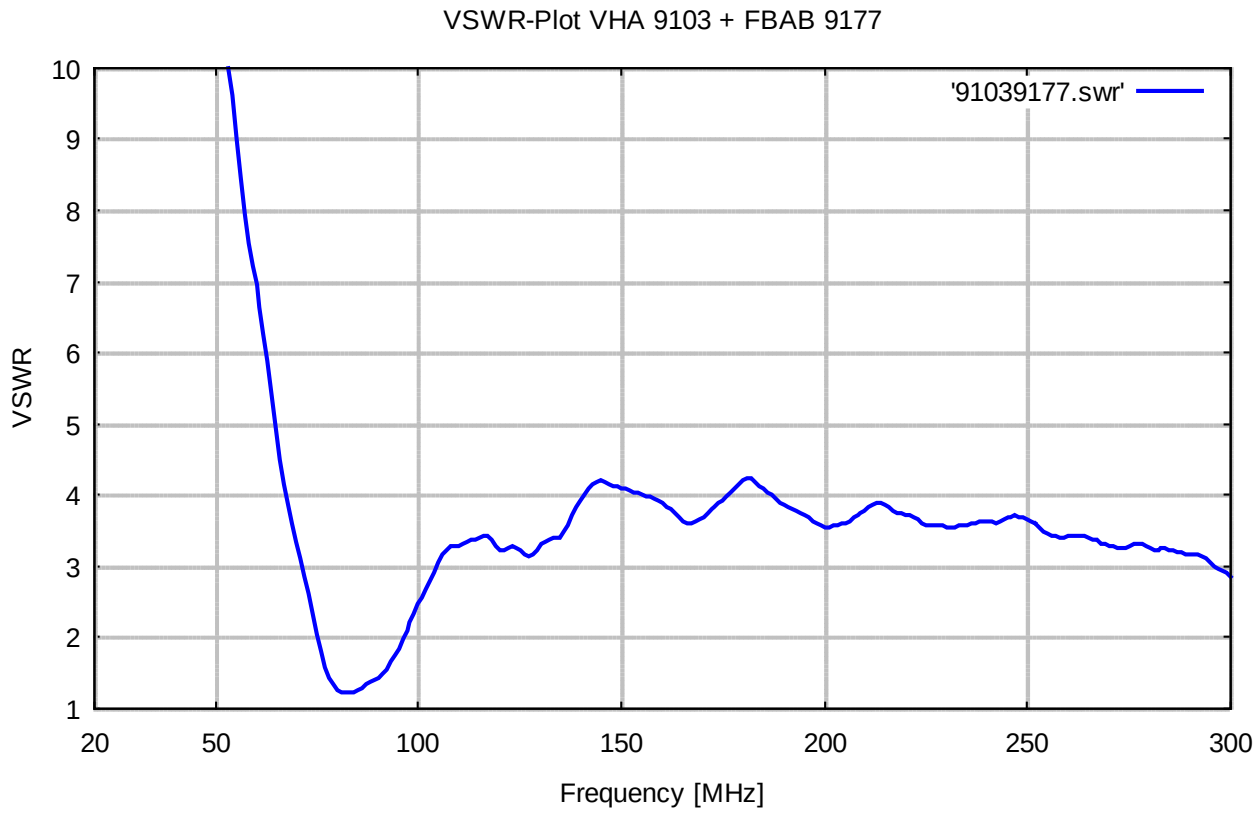
Frequency	Isotropic gain 1 m	Antenna factor 1 m	Isotropic gain 3 m	Antenna factor 3 m
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]
72.00	-0.11	7.48	0.47	6.89
73.00	0.11	7.38	0.66	6.83
74.00	0.32	7.28	0.82	6.79
75.00	0.48	7.24	0.93	6.79
76.00	0.58	7.26	1.06	6.77
77.00	0.63	7.32	1.17	6.78
78.00	0.66	7.40	1.27	6.79
79.00	0.70	7.47	1.33	6.84
80.00	0.72	7.56	1.36	6.92
81.00	0.69	7.70	1.38	7.01
82.00	0.65	7.85	1.40	7.09
83.00	0.65	7.95	1.41	7.20
84.00	0.61	8.10	1.40	7.30
85.00	0.53	8.28	1.37	7.44
86.00	0.42	8.49	1.33	7.58
87.00	0.32	8.69	1.33	7.68
88.00	0.24	8.87	1.30	7.81
89.00	0.16	9.05	1.24	7.96
90.00	0.06	9.24	1.17	8.13
91.00	-0.08	9.48	1.07	8.33
92.00	-0.17	9.67	0.98	8.51
93.00	-0.22	9.81	0.88	8.71
94.00	-0.25	9.93	0.76	8.93
95.00	-0.28	10.05	0.62	9.16
96.00	-0.38	10.25	0.51	9.36
97.00	-0.48	10.44	0.43	9.53
98.00	-0.55	10.59	0.37	9.67
99.00	-0.60	10.73	0.28	9.85
100.00	-0.64	10.86	0.23	9.99
101.00	-0.70	11.01	0.18	10.13
102.00	-0.80	11.19	0.14	10.25
103.00	-0.85	11.33	0.10	10.37
104.00	-0.89	11.45	0.02	10.54
105.00	-0.91	11.55	-0.05	10.70
106.00	-0.94	11.67	-0.08	10.81
107.00	-0.99	11.80	-0.12	10.93
108.00	-1.02	11.91	-0.15	11.03
109.00	-1.06	12.03	-0.17	11.14
110.00	-1.08	12.13	-0.20	11.25
111.00	-1.05	12.18	-0.24	11.36
112.00	-1.01	12.21	-0.27	11.47
113.00	-0.96	12.24	-0.28	11.56
114.00	-0.90	12.26	-0.30	11.66
115.00	-0.99	12.42	-0.37	11.80
116.00	-1.24	12.75	-0.42	11.93
117.00	-1.55	13.13	-0.47	12.05
118.00	-1.79	13.45	-0.49	12.14
119.00	-1.80	13.53	-0.50	12.23
120.00	-1.78	13.58	-0.57	12.37
121.00	-1.73	13.61	-0.64	12.52
122.00	-1.70	13.65	-0.68	12.63
123.00	-1.71	13.73	-0.71	12.73
124.00	-1.72	13.81	-0.75	12.84

Frequency	Isotropic gain 1 m	Antenna factor 1 m	Isotropic gain 3 m	Antenna factor 3 m
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]
125.00	-1.73	13.89	-0.80	12.96
126.00	-1.72	13.95	-0.85	13.08
127.00	-1.71	14.01	-0.86	13.16
128.00	-1.69	14.05	-0.89	13.25
129.00	-1.67	14.10	-0.93	13.36
130.00	-1.66	14.16	-0.98	13.48
131.00	-1.68	14.25	-1.03	13.59
132.00	-1.71	14.34	-1.05	13.68
133.00	-1.77	14.47	-1.05	13.74
134.00	-1.76	14.52	-1.07	13.83
135.00	-1.75	14.58	-1.08	13.91
136.00	-1.72	14.61	-1.11	14.00
137.00	-1.70	14.65	-1.12	14.07
138.00	-1.65	14.67	-1.12	14.14
139.00	-1.62	14.70	-1.15	14.23
140.00	-1.59	14.73	-1.21	14.36
141.00	-1.59	14.79	-1.26	14.46
142.00	-1.63	14.90	-1.28	14.55
143.00	-1.69	15.02	-1.24	14.57
144.00	-1.74	15.13	-1.19	14.58
145.00	-1.73	15.18	-1.14	14.58
146.00	-1.69	15.20	-1.07	14.58
147.00	-1.64	15.21	-1.00	14.57
148.00	-1.57	15.20	-0.96	14.59
149.00	-1.52	15.20	-0.93	14.61
150.00	-1.47	15.21	-0.92	14.66
151.00	-1.45	15.25	-0.93	14.73
152.00	-1.47	15.33	-0.95	14.80
153.00	-1.48	15.39	-0.96	14.88
154.00	-1.49	15.46	-0.98	14.95
155.00	-1.47	15.50	-0.97	15.00
156.00	-1.43	15.51	-0.97	15.05
157.00	-1.38	15.52	-0.98	15.12
158.00	-1.36	15.55	-0.99	15.18
159.00	-1.35	15.60	-1.00	15.24
160.00	-1.34	15.64	-1.03	15.34
161.00	-1.32	15.68	-1.04	15.40
162.00	-1.32	15.73	-1.06	15.47
163.00	-1.30	15.76	-1.06	15.52
164.00	-1.32	15.84	-1.08	15.60
165.00	-1.32	15.89	-1.10	15.67
166.00	-1.33	15.95	-1.10	15.72
167.00	-1.31	15.98	-1.08	15.76
168.00	-1.27	16.00	-1.10	15.83
169.00	-1.27	16.05	-1.13	15.91
170.00	-1.29	16.12	-1.13	15.96
171.00	-1.30	16.18	-1.12	16.00
172.00	-1.28	16.21	-1.10	16.03
173.00	-1.23	16.21	-1.10	16.08
174.00	-1.16	16.19	-1.07	16.10
175.00	-1.13	16.21	-1.02	16.10
176.00	-1.11	16.24	-0.96	16.09
177.00	-1.06	16.24	-0.92	16.10

Frequency	Isotropic gain 1 m	Antenna factor 1 m	Isotropic gain 3 m	Antenna factor 3 m
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]
178.00	-1.02	16.25	-0.86	16.09
179.00	-0.99	16.27	-0.79	16.07
180.00	-0.97	16.30	-0.73	16.05
181.00	-0.95	16.32	-0.69	16.07
182.00	-0.93	16.35	-0.68	16.10
183.00	-0.92	16.39	-0.66	16.13
184.00	-0.88	16.40	-0.65	16.17
185.00	-0.87	16.43	-0.66	16.23
186.00	-0.88	16.49	-0.68	16.29
187.00	-0.89	16.55	-0.70	16.36
188.00	-0.88	16.58	-0.72	16.43
189.00	-0.87	16.62	-0.75	16.50
190.00	-0.90	16.70	-0.78	16.57
191.00	-0.89	16.73	-0.77	16.61
192.00	-0.85	16.74	-0.78	16.66
193.00	-0.83	16.76	-0.80	16.73
194.00	-0.80	16.78	-0.80	16.78
195.00	-0.77	16.79	-0.79	16.81
196.00	-0.72	16.79	-0.74	16.81
197.00	-0.68	16.79	-0.72	16.83
198.00	-0.67	16.82	-0.72	16.87
199.00	-0.66	16.86	-0.71	16.91
200.00	-0.64	16.88	-0.71	16.95
201.00	-0.65	16.93	-0.65	16.94
202.00	-0.62	16.95	-0.60	16.93
203.00	-0.57	16.94	-0.58	16.95
204.00	-0.54	16.95	-0.55	16.96
205.00	-0.55	17.01	-0.51	16.97
206.00	-0.56	17.06	-0.45	16.95
207.00	-0.55	17.09	-0.37	16.91
208.00	-0.53	17.11	-0.36	16.94
209.00	-0.55	17.17	-0.36	16.98
210.00	-0.55	17.21	-0.35	17.02
211.00	-0.56	17.27	-0.33	17.03
212.00	-0.53	17.28	-0.28	17.03
213.00	-0.49	17.28	-0.26	17.05
214.00	-0.44	17.27	-0.25	17.08
215.00	-0.41	17.28	-0.21	17.08
216.00	-0.38	17.29	-0.14	17.05
217.00	-0.39	17.34	-0.07	17.02
218.00	-0.40	17.39	-0.03	17.02
219.00	-0.38	17.41	-0.01	17.04
220.00	-0.30	17.37	0.00	17.07
221.00	-0.25	17.36	0.02	17.09
222.00	-0.28	17.43	0.04	17.11
223.00	-0.27	17.46	0.04	17.15
224.00	-0.23	17.45	0.04	17.19
225.00	-0.18	17.44	0.04	17.22
226.00	-0.23	17.53	0.08	17.22
227.00	-0.26	17.60	0.13	17.21
228.00	-0.31	17.69	0.16	17.22
229.00	-0.32	17.74	0.18	17.24
230.00	-0.29	17.74	0.18	17.27

Frequency	Isotropic gain 1 m	Antenna factor 1 m	Isotropic gain 3 m	Antenna factor 3 m
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]
231.00	-0.27	17.76	0.21	17.28
232.00	-0.28	17.81	0.24	17.29
233.00	-0.29	17.86	0.25	17.32
234.00	-0.29	17.89	0.23	17.37
235.00	-0.26	17.90	0.22	17.42
236.00	-0.24	17.92	0.23	17.45
237.00	-0.21	17.92	0.25	17.46
238.00	-0.22	17.97	0.28	17.47
239.00	-0.24	18.03	0.29	17.50
240.00	-0.18	18.00	0.30	17.52
241.00	-0.12	17.98	0.35	17.51
242.00	-0.08	17.98	0.39	17.51
243.00	-0.10	18.03	0.43	17.50
244.00	-0.12	18.09	0.49	17.48
245.00	-0.11	18.11	0.52	17.48
246.00	-0.07	18.11	0.54	17.50
247.00	-0.04	18.11	0.55	17.52
248.00	-0.01	18.12	0.55	17.56
249.00	-0.02	18.16	0.57	17.57
250.00	0.03	18.15	0.60	17.58
251.00	0.08	18.13	0.58	17.63
252.00	0.16	18.09	0.58	17.67
253.00	0.18	18.10	0.60	17.68
254.00	0.14	18.18	0.62	17.70
255.00	0.12	18.23	0.69	17.66
256.00	0.13	18.25	0.73	17.66
257.00	0.17	18.25	0.76	17.66
258.00	0.20	18.25	0.78	17.68
259.00	0.18	18.31	0.81	17.68
260.00	0.13	18.39	0.85	17.67
261.00	0.08	18.47	0.89	17.66
262.00	0.11	18.48	0.90	17.69
263.00	0.17	18.45	0.88	17.74
264.00	0.21	18.44	0.85	17.80
265.00	0.23	18.45	0.86	17.82
266.00	0.23	18.49	0.85	17.87
267.00	0.24	18.51	0.81	17.94
268.00	0.30	18.48	0.76	18.02
269.00	0.32	18.50	0.71	18.11
270.00	0.33	18.52	0.72	18.13
271.00	0.28	18.60	0.74	18.14
272.00	0.28	18.63	0.75	18.16
273.00	0.30	18.64	0.79	18.16
274.00	0.33	18.65	0.83	18.14
275.00	0.35	18.66	0.91	18.10
276.00	0.33	18.71	0.99	18.05
277.00	0.30	18.77	1.05	18.02
278.00	0.34	18.76	1.10	18.00
279.00	0.41	18.72	1.13	18.01
280.00	0.50	18.66	1.14	18.02
281.00	0.53	18.66	1.16	18.03
282.00	0.54	18.68	1.18	18.04
283.00	0.54	18.72	1.20	18.05

Frequency	Isotropic gain 1 m	Antenna factor 1 m	Isotropic gain 3 m	Antenna factor 3 m
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]
284.00	0.57	18.72	1.20	18.08
285.00	0.62	18.70	1.21	18.11
286.00	0.66	18.69	1.25	18.10
287.00	0.66	18.72	1.29	18.09
288.00	0.63	18.78	1.33	18.07
289.00	0.64	18.80	1.37	18.06
290.00	0.69	18.78	1.41	18.06
291.00	0.76	18.74	1.44	18.06
292.00	0.81	18.72	1.47	18.05
293.00	0.85	18.71	1.49	18.06
294.00	0.89	18.70	1.51	18.07
295.00	0.93	18.69	1.52	18.10
296.00	0.99	18.66	1.50	18.14
297.00	1.04	18.64	1.46	18.21
298.00	1.07	18.63	1.43	18.27
299.00	1.12	18.61	1.41	18.33
300.00	1.16	18.60	1.39	18.37
301.00	1.21	18.58	1.35	18.44
302.00	1.26	18.56	1.30	18.52
303.00	1.34	18.51	1.28	18.57
304.00	1.39	18.49	1.29	18.58
305.00	1.43	18.48	1.32	18.58



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