

# SCHWARZBECK MESS - ELEKTRONIK

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

## Doppelsteg Breitband-Hornantenne BBHA 9120 F *Double Ridged Broadband Horn Antenna BBHA 9120 F*



### Technische Daten:

Linear polarisierte Doppelsteg Breitband Hornantenne in Aluminiumausführung für Empfangs- und Sendeanwendungen. Für hohe Leistungen kann die Antenne optional mit 7-16 Buchse ausgestattet werden.

Frequenzbereich, nominell:  
Isotropgewinn (Fernfeld):

Antennenfaktor (Fernfeld):  
Impedanz, nominell:  
Stehwellenverhältnis SWR typisch:  
Stehwellenverhältnis SWR max.:  
Vor- Rückverhältnis:  
Polarisationsentkopplung:  
3 dB Öffnungswinkel typ.(E-Ebene):  
3 dB Öffnungswinkel typ.(H-Ebene):

Max. Eingangsleistung:  
Anschlußart: N-Buchse  
Max. Eingangsleistung:  
Option: 7-16 Buchse  
Halterung (Zentralbefestigung):  
Breite x Länge x Dicke:  
Gewicht:  
Empfohlenes Zubehör:

### BBHA 9120 F

200 MHz...2 GHz  
11.5 dBi +/-2.5 dB  
(0.3-2 GHz)

10...27 dB/m

50 Ω

<2

3.5

typ. 25 dB

typ. > 25 dB

45°

45°

1.5 kW @ 200 MHz

0.5 kW @ 2 GHz

3.5 kW @ 200 MHz

1.5 kW @ 2 GHz

3/8", M12

950 x 680 x 960 mm

16 kg

AM 9144 Mast

### Specifications:

*Linear polarized double ridged broadband horn antenna for receive and transmit applications made of aluminium. An optional 7-16 connector is available for high power applications.*

*Nominal Frequency Range:  
Isotropic Gain (Farfield):*

*Antenna Factor (Farfield):*

*Nominal Impedance:*

*Standing Wave Ratio SWR typical:*

*Standing Wave Ratio SWR max.:*

*Front to Back Ratio:*

*Cross Polarisation:*

*3 dB Beamwidth typ. (E-Plane):*

*3 dB Beamwidth typ. (H-Plane):*

*Max. Input Power:*

*N-Connector female*

*Max. Input Power:*

*Option: 7-16 connector female*

*Center Mount:*

*Width x Length x Thickness:*

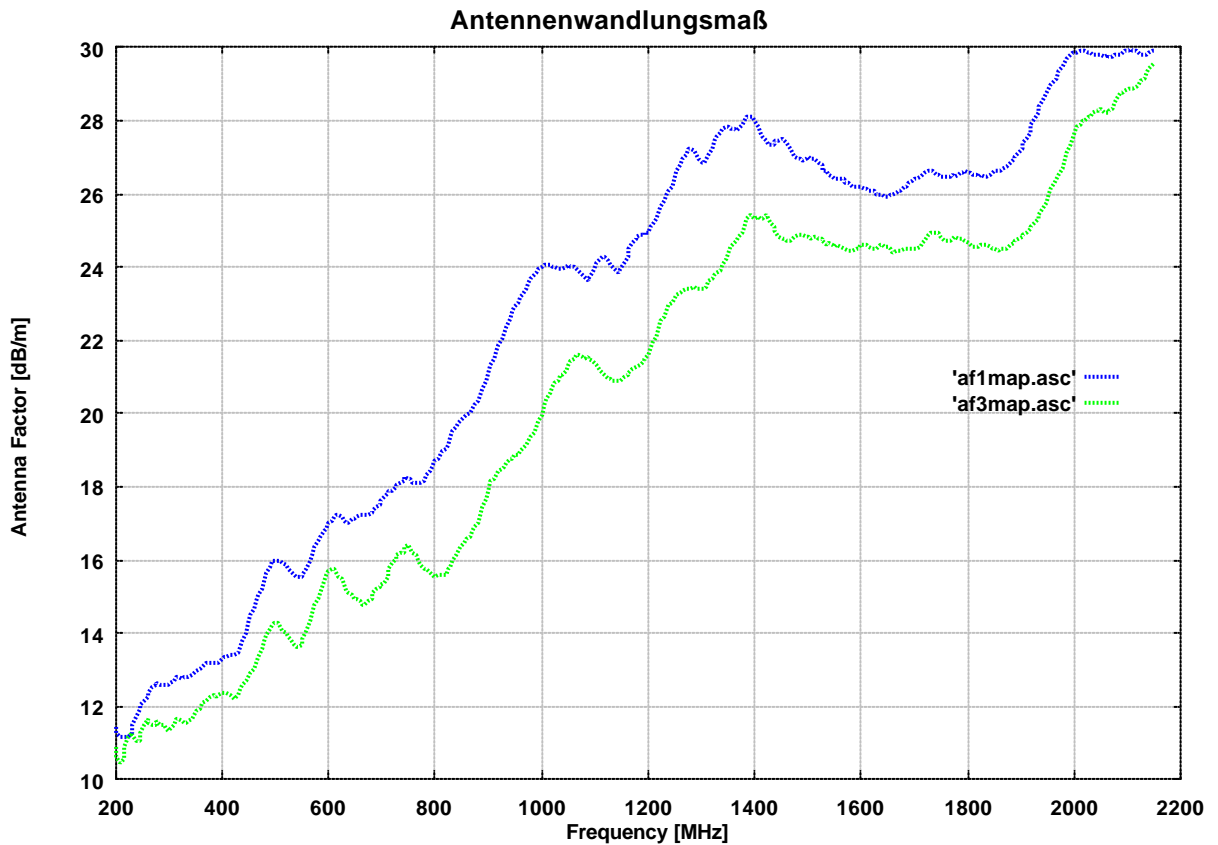
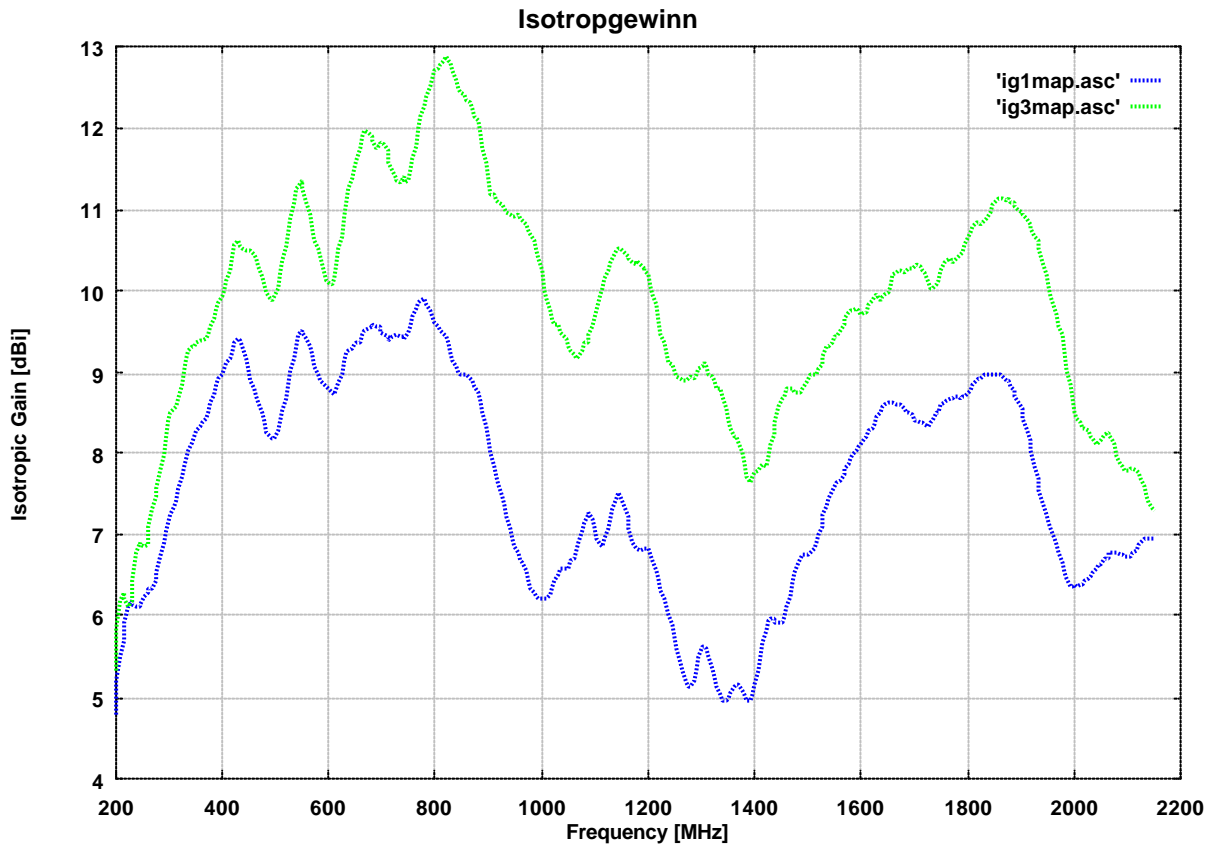
*Weight:*

*Recommended Accessories:*

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## **Doppelsteg Breitband-Hornantenne BBHA 9120 F** ***Double Ridged Broadband Horn Antenna BBHA 9120 F***

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture	Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]	[dBi]	[dB/m]
180.00	1.18	14.15	2.58	12.75
185.00	2.47	13.09	3.42	12.14
190.00	3.54	12.26	4.01	11.79
195.00	4.33	11.69	4.66	11.36
200.00	4.80	11.44	5.33	10.91
205.00	5.20	11.26	5.85	10.61
210.00	5.50	11.16	6.19	10.47
215.00	5.70	11.17	6.30	10.57
220.00	5.93	11.14	6.21	10.86
225.00	6.12	11.14	6.11	11.15
230.00	6.18	11.27	6.19	11.26
235.00	6.14	11.50	6.45	11.19
240.00	6.13	11.69	6.77	11.05
245.00	6.10	11.90	6.92	11.08
250.00	6.14	12.04	6.89	11.29
255.00	6.25	12.10	6.86	11.49
260.00	6.28	12.24	6.89	11.63
265.00	6.34	12.34	7.11	11.57
270.00	6.35	12.50	7.32	11.53
275.00	6.44	12.57	7.48	11.53
280.00	6.53	12.63	7.58	11.58
285.00	6.73	12.59	7.80	11.52
290.00	6.90	12.57	7.99	11.48
295.00	7.05	12.57	8.23	11.39
300.00	7.16	12.60	8.42	11.34
305.00	7.25	12.66	8.52	11.39
310.00	7.34	12.71	8.56	11.49
315.00	7.43	12.76	8.57	11.62
320.00	7.57	12.75	8.68	11.64
325.00	7.72	12.74	8.85	11.61
330.00	7.84	12.75	9.03	11.56
335.00	7.93	12.79	9.16	11.56
340.00	8.04	12.81	9.27	11.58
345.00	8.14	12.84	9.33	11.65
350.00	8.21	12.89	9.33	11.77
355.00	8.29	12.93	9.36	11.86
360.00	8.34	13.01	9.39	11.96
365.00	8.38	13.09	9.39	12.08
370.00	8.44	13.14	9.41	12.17
375.00	8.53	13.17	9.48	12.22
380.00	8.64	13.18	9.57	12.25
385.00	8.74	13.19	9.66	12.27
390.00	8.84	13.20	9.79	12.25
395.00	8.93	13.22	9.87	12.28
400.00	8.98	13.28	9.92	12.34
405.00	9.05	13.32	10.00	12.37

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## **Doppelsteg Breitband-Hornantenne BBHA 9120 F** **Double Ridged Broadband Horn Antenna BBHA 9120 F**

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture		Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]		[dBi]	[dB/m]
410.00	9.12	13.36		10.15	12.33
415.00	9.17	13.41		10.27	12.31
420.00	9.25	13.43		10.44	12.24
425.00	9.35	13.44		10.57	12.22
430.00	9.41	13.48		10.62	12.27
435.00	9.39	13.60		10.55	12.44
440.00	9.32	13.77		10.53	12.56
445.00	9.19	14.00		10.50	12.69
450.00	9.05	14.23		10.49	12.79
455.00	8.91	14.47		10.49	12.89
460.00	8.82	14.66		10.46	13.02
465.00	8.72	14.85		10.40	13.17
470.00	8.63	15.03		10.31	13.35
475.00	8.53	15.22		10.19	13.56
480.00	8.40	15.44		10.08	13.76
485.00	8.27	15.66		9.98	13.95
490.00	8.20	15.82		9.91	14.11
495.00	8.18	15.93		9.88	14.23
500.00	8.19	16.01		9.93	14.27
505.00	8.29	16.00		10.02	14.27
510.00	8.41	15.96		10.22	14.15
515.00	8.54	15.92		10.38	14.08
520.00	8.67	15.87		10.56	13.98
525.00	8.86	15.76		10.74	13.88
530.00	9.03	15.68		10.89	13.82
535.00	9.19	15.60		11.10	13.69
540.00	9.33	15.54		11.27	13.60
545.00	9.45	15.50		11.31	13.64
550.00	9.51	15.52		11.35	13.68
555.00	9.50	15.61		11.27	13.84
560.00	9.42	15.76		11.10	14.08
565.00	9.33	15.93		10.94	14.32
570.00	9.22	16.12		10.78	14.56
575.00	9.07	16.34		10.62	14.79
580.00	8.97	16.52		10.54	14.95
585.00	8.90	16.66		10.43	15.13
590.00	8.84	16.80		10.22	15.42
595.00	8.83	16.88		10.12	15.59
600.00	8.80	16.98		10.11	15.67
605.00	8.75	17.11		10.08	15.78
610.00	8.74	17.19		10.17	15.76
615.00	8.80	17.20		10.33	15.67
620.00	8.87	17.20		10.51	15.56
625.00	8.98	17.16		10.68	15.46
630.00	9.14	17.07		10.92	15.29
635.00	9.25	17.03		11.11	15.17
640.00	9.29	17.05		11.26	15.08

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## Doppelsteg Breitband-Hornantenne BBHA 9120 F Double Ridged Broadband Horn Antenna BBHA 9120 F

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture		Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]		[dBi]	[dB/m]
645.00	9.30	17.11		11.39	15.02
650.00	9.34	17.14		11.51	14.97
655.00	9.36	17.18		11.62	14.92
660.00	9.38	17.23		11.76	14.85
665.00	9.45	17.23		11.91	14.77
670.00	9.51	17.23		11.99	14.75
675.00	9.54	17.27		11.97	14.84
680.00	9.57	17.30		11.91	14.96
685.00	9.59	17.34		11.84	15.09
690.00	9.58	17.42		11.78	15.22
695.00	9.55	17.51		11.80	15.26
700.00	9.50	17.62		11.83	15.29
705.00	9.47	17.71		11.81	15.37
710.00	9.43	17.82		11.74	15.51
715.00	9.40	17.91		11.58	15.73
720.00	9.44	17.93		11.47	15.90
725.00	9.45	17.98		11.40	16.03
730.00	9.46	18.03		11.36	16.13
735.00	9.43	18.12		11.34	16.21
740.00	9.43	18.17		11.41	16.19
745.00	9.42	18.24		11.33	16.33
750.00	9.50	18.22		11.36	16.36
755.00	9.56	18.22		11.49	16.29
760.00	9.69	18.15		11.64	16.20
765.00	9.79	18.10		11.79	16.10
770.00	9.87	18.08		12.00	15.95
775.00	9.90	18.11		12.15	15.86
780.00	9.91	18.15		12.27	15.79
785.00	9.84	18.28		12.39	15.73
790.00	9.75	18.42		12.51	15.66
795.00	9.69	18.54		12.63	15.60
800.00	9.61	18.67		12.72	15.56
805.00	9.55	18.79		12.75	15.59
810.00	9.52	18.87		12.78	15.61
815.00	9.50	18.94		12.83	15.61
820.00	9.44	19.06		12.88	15.62
825.00	9.36	19.19		12.84	15.71
830.00	9.25	19.35		12.80	15.80
835.00	9.15	19.50		12.70	15.95
840.00	9.07	19.64		12.60	16.11
845.00	9.01	19.75		12.50	16.26
850.00	8.97	19.84		12.46	16.35
855.00	8.97	19.89		12.41	16.45
860.00	8.96	19.95		12.36	16.55
865.00	8.92	20.04		12.32	16.64
870.00	8.89	20.12		12.23	16.78
875.00	8.83	20.23		12.14	16.92

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## Doppelsteg Breitband-Hornantenne BBHA 9120 F Double Ridged Broadband Horn Antenna BBHA 9120 F

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture		Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]		[dBi]	[dB/m]
880.00	8.75	20.36		12.11	17.00
885.00	8.66	20.50		11.96	17.20
890.00	8.53	20.68		11.78	17.43
895.00	8.34	20.92		11.60	17.66
900.00	8.18	21.12		11.38	17.92
905.00	8.01	21.34		11.20	18.15
910.00	7.86	21.54		11.18	18.22
915.00	7.72	21.73		11.13	18.32
920.00	7.62	21.88		11.08	18.42
925.00	7.49	22.05		11.07	18.47
930.00	7.37	22.22		11.03	18.56
935.00	7.23	22.41		10.97	18.67
940.00	7.08	22.60		10.95	18.73
945.00	6.95	22.78		10.93	18.80
950.00	6.85	22.92		10.92	18.85
955.00	6.77	23.05		10.94	18.88
960.00	6.70	23.17		10.91	18.96
965.00	6.65	23.26		10.86	19.05
970.00	6.56	23.40		10.83	19.13
975.00	6.45	23.55		10.75	19.25
980.00	6.34	23.70		10.69	19.35
985.00	6.29	23.80		10.61	19.48
990.00	6.25	23.88		10.49	19.64
995.00	6.23	23.95		10.40	19.78
1000.00	6.21	24.01		10.26	19.96
1005.00	6.21	24.05		10.01	20.25
1010.00	6.21	24.10		9.91	20.40
1015.00	6.26	24.09		9.77	20.58
1020.00	6.37	24.02		9.64	20.75
1025.00	6.45	23.98		9.60	20.83
1030.00	6.52	23.96		9.59	20.89
1035.00	6.57	23.95		9.49	21.03
1040.00	6.59	23.97		9.48	21.08
1045.00	6.58	24.02		9.41	21.19
1050.00	6.59	24.05		9.32	21.32
1055.00	6.67	24.02		9.26	21.43
1060.00	6.72	24.01		9.23	21.50
1065.00	6.81	23.96		9.17	21.60
1070.00	6.91	23.90		9.20	21.61
1075.00	7.05	23.80		9.27	21.58
1080.00	7.17	23.72		9.35	21.54
1085.00	7.27	23.66		9.38	21.55
1090.00	7.28	23.69		9.47	21.50
1095.00	7.20	23.81		9.58	21.43
1100.00	7.11	23.94		9.65	21.40
1105.00	6.96	24.13		9.75	21.34
1110.00	6.89	24.24		9.97	21.16

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## Doppelsteg Breitband-Hornantenne BBHA 9120 F Double Ridged Broadband Horn Antenna BBHA 9120 F

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture		Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]		[dBi]	[dB/m]
1115.00	6.85	24.32		10.04	21.13
1120.00	6.95	24.25		10.16	21.04
1125.00	7.06	24.18		10.27	20.97
1130.00	7.20	24.08		10.35	20.93
1135.00	7.33	23.99		10.41	20.91
1140.00	7.44	23.92		10.50	20.86
1145.00	7.51	23.89		10.53	20.87
1150.00	7.47	23.96		10.52	20.91
1155.00	7.36	24.11		10.48	20.99
1160.00	7.23	24.28		10.44	21.07
1165.00	7.08	24.47		10.41	21.14
1170.00	6.91	24.67		10.35	21.23
1175.00	6.84	24.78		10.34	21.28
1180.00	6.83	24.83		10.38	21.28
1185.00	6.81	24.88		10.34	21.35
1190.00	6.84	24.89		10.28	21.45
1195.00	6.84	24.93		10.26	21.51
1200.00	6.83	24.97		10.21	21.59
1205.00	6.76	25.08		10.06	21.78
1210.00	6.70	25.18		9.96	21.92
1215.00	6.56	25.35		9.84	22.07
1220.00	6.46	25.49		9.63	22.32
1225.00	6.32	25.66		9.45	22.53
1230.00	6.20	25.82		9.37	22.65
1235.00	6.11	25.94		9.25	22.80
1240.00	6.00	26.09		9.13	22.96
1245.00	5.90	26.22		9.10	23.02
1250.00	5.76	26.40		9.03	23.13
1255.00	5.60	26.59		8.95	23.24
1260.00	5.44	26.79		8.93	23.30
1265.00	5.32	26.94		8.91	23.35
1270.00	5.19	27.11		8.89	23.41
1275.00	5.12	27.21		8.93	23.40
1280.00	5.14	27.22		8.94	23.42
1285.00	5.20	27.20		8.92	23.48
1290.00	5.35	27.08		9.00	23.43
1295.00	5.49	26.98		9.04	23.43
1300.00	5.62	26.88		9.08	23.42
1305.00	5.65	26.88		9.12	23.41
1310.00	5.61	26.96		9.09	23.48
1315.00	5.50	27.10		8.99	23.61
1320.00	5.36	27.27		8.94	23.69
1325.00	5.24	27.42		8.88	23.78
1330.00	5.13	27.57		8.81	23.89
1335.00	5.04	27.69		8.81	23.92
1340.00	4.97	27.79		8.69	24.07
1345.00	4.98	27.81		8.56	24.23

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## Doppelsteg Breitband-Hornantenne BBHA 9120 F Double Ridged Broadband Horn Antenna BBHA 9120 F

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture		Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]		[dBi]	[dB/m]
1350.00	5.00	27.83		8.42	24.41
1355.00	5.07	27.79		8.30	24.56
1360.00	5.12	27.77		8.22	24.67
1365.00	5.17	27.75		8.22	24.70
1370.00	5.17	27.78		8.14	24.81
1375.00	5.09	27.90		8.01	24.98
1380.00	5.02	28.00		7.90	25.12
1385.00	4.96	28.09		7.72	25.33
1390.00	4.97	28.11		7.66	25.42
1395.00	5.02	28.09		7.71	25.40
1400.00	5.15	27.99		7.77	25.37
1405.00	5.32	27.85		7.79	25.38
1410.00	5.49	27.71		7.86	25.34
1415.00	5.68	27.56		7.88	25.36
1420.00	5.82	27.45		7.85	25.42
1425.00	5.95	27.35		7.97	25.33
1430.00	5.98	27.35		8.12	25.21
1435.00	5.98	27.38		8.24	25.12
1440.00	5.94	27.45		8.38	25.01
1445.00	5.92	27.50		8.58	24.84
1450.00	5.93	27.52		8.68	24.77
1455.00	5.99	27.49		8.70	24.78
1460.00	6.12	27.39		8.80	24.71
1465.00	6.25	27.29		8.81	24.73
1470.00	6.42	27.15		8.80	24.77
1475.00	6.55	27.05		8.75	24.85
1480.00	6.65	26.98		8.75	24.88
1485.00	6.71	26.94		8.76	24.89
1490.00	6.76	26.92		8.81	24.87
1495.00	6.75	26.96		8.87	24.84
1500.00	6.75	26.99		8.92	24.82
1505.00	6.79	26.98		8.98	24.79
1510.00	6.84	26.96		8.98	24.82
1515.00	6.91	26.92		9.00	24.83
1520.00	7.00	26.86		9.05	24.81
1525.00	7.11	26.78		9.11	24.78
1530.00	7.24	26.67		9.21	24.70
1535.00	7.35	26.59		9.31	24.63
1540.00	7.46	26.51		9.31	24.66
1545.00	7.53	26.47		9.38	24.62
1550.00	7.60	26.43		9.44	24.59
1555.00	7.63	26.42		9.44	24.61
1560.00	7.68	26.40		9.51	24.57
1565.00	7.74	26.37		9.59	24.52
1570.00	7.81	26.33		9.65	24.49
1575.00	7.87	26.30		9.73	24.44
1580.00	7.94	26.25		9.76	24.43



# SCHWARZBECK MESS - ELEKTRONIK

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

## Doppelsteg Breitband-Hornantenne BBHA 9120 F Double Ridged Broadband Horn Antenna BBHA 9120 F

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture		Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]		[dBi]	[dB/m]
1585.00	7.98	26.24		9.77	24.45
1590.00	8.03	26.22		9.78	24.47
1595.00	8.09	26.19		9.76	24.52
1600.00	8.13	26.17		9.71	24.59
1605.00	8.19	26.14		9.73	24.60
1610.00	8.22	26.14		9.74	24.62
1615.00	8.28	26.10		9.82	24.56
1620.00	8.32	26.09		9.89	24.52
1625.00	8.37	26.07		9.95	24.49
1630.00	8.45	26.01		9.96	24.50
1635.00	8.51	25.98		9.90	24.59
1640.00	8.57	25.95		9.92	24.60
1645.00	8.61	25.93		9.96	24.58
1650.00	8.63	25.94		9.99	24.58
1655.00	8.64	25.96		10.07	24.53
1660.00	8.64	25.98		10.21	24.41
1665.00	8.61	26.04		10.22	24.43
1670.00	8.61	26.06		10.25	24.42
1675.00	8.59	26.11		10.27	24.43
1680.00	8.55	26.18		10.24	24.49
1685.00	8.53	26.22		10.26	24.49
1690.00	8.49	26.29		10.28	24.50
1695.00	8.47	26.33		10.28	24.52
1700.00	8.42	26.41		10.30	24.53
1705.00	8.41	26.44		10.34	24.51
1710.00	8.38	26.50		10.31	24.57
1715.00	8.38	26.53		10.26	24.65
1720.00	8.37	26.56		10.22	24.71
1725.00	8.35	26.61		10.10	24.86
1730.00	8.38	26.60		10.05	24.93
1735.00	8.41	26.60		10.05	24.96
1740.00	8.49	26.54		10.09	24.94
1745.00	8.53	26.53		10.15	24.91
1750.00	8.60	26.48		10.27	24.81
1755.00	8.63	26.48		10.35	24.76
1760.00	8.66	26.47		10.38	24.75
1765.00	8.67	26.48		10.41	24.74
1770.00	8.67	26.51		10.37	24.81
1775.00	8.70	26.50		10.38	24.82
1780.00	8.69	26.54		10.42	24.81
1785.00	8.68	26.57		10.45	24.80
1790.00	8.69	26.59		10.47	24.81
1795.00	8.71	26.59		10.57	24.73
1800.00	8.75	26.58		10.67	24.66
1805.00	8.78	26.57		10.72	24.63
1810.00	8.85	26.52		10.79	24.58
1815.00	8.89	26.51		10.85	24.55

# SCHWARZBECK MESS - ELEKTRONIK

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

## Doppelsteg Breitband-Hornantenne BBHA 9120 F Double Ridged Broadband Horn Antenna BBHA 9120 F

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture		Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]		[dBi]	[dB/m]
1820.00	8.93	26.49		10.85	24.57
1825.00	8.93	26.52		10.83	24.62
1830.00	8.98	26.49		10.87	24.60
1835.00	8.99	26.50		10.90	24.59
1840.00	8.99	26.53		10.97	24.55
1845.00	8.98	26.56		11.06	24.48
1850.00	8.97	26.59		11.10	24.46
1855.00	8.97	26.62		11.15	24.44
1860.00	8.96	26.65		11.15	24.46
1865.00	8.94	26.69		11.14	24.49
1870.00	8.90	26.76		11.13	24.53
1875.00	8.89	26.79		11.14	24.54
1880.00	8.83	26.87		11.09	24.61
1885.00	8.77	26.96		11.08	24.65
1890.00	8.71	27.04		11.04	24.71
1895.00	8.63	27.14		11.01	24.76
1900.00	8.55	27.25		10.97	24.83
1905.00	8.44	27.38		10.95	24.87
1910.00	8.31	27.53		10.90	24.94
1915.00	8.17	27.69		10.82	25.04
1920.00	8.02	27.87		10.78	25.11
1925.00	7.85	28.06		10.68	25.23
1930.00	7.69	28.24		10.61	25.32
1935.00	7.55	28.40		10.54	25.41
1940.00	7.40	28.58		10.37	25.61
1945.00	7.26	28.74		10.21	25.79
1950.00	7.16	28.86		10.07	25.95
1955.00	7.08	28.96		9.92	26.12
1960.00	6.96	29.11		9.78	26.29
1965.00	6.88	29.21		9.71	26.38
1970.00	6.77	29.34		9.58	26.53
1975.00	6.65	29.48		9.45	26.68
1980.00	6.54	29.61		9.24	26.91
1985.00	6.46	29.72		9.03	27.15
1990.00	6.37	29.83		8.84	27.36
1995.00	6.36	29.86		8.68	27.54
2000.00	6.38	29.86		8.52	27.72
2005.00	6.37	29.89		8.44	27.82
2010.00	6.38	29.90		8.39	27.89
2015.00	6.40	29.91		8.31	28.00
2020.00	6.43	29.90		8.31	28.02
2025.00	6.46	29.89		8.28	28.07
2030.00	6.50	29.87		8.23	28.14
2035.00	6.55	29.84		8.19	28.20
2040.00	6.58	29.83		8.13	28.28
2045.00	6.63	29.80		8.15	28.28
2050.00	6.64	29.82		8.16	28.30

# SCHWARZBECK MESS - ELEKTRONIK

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

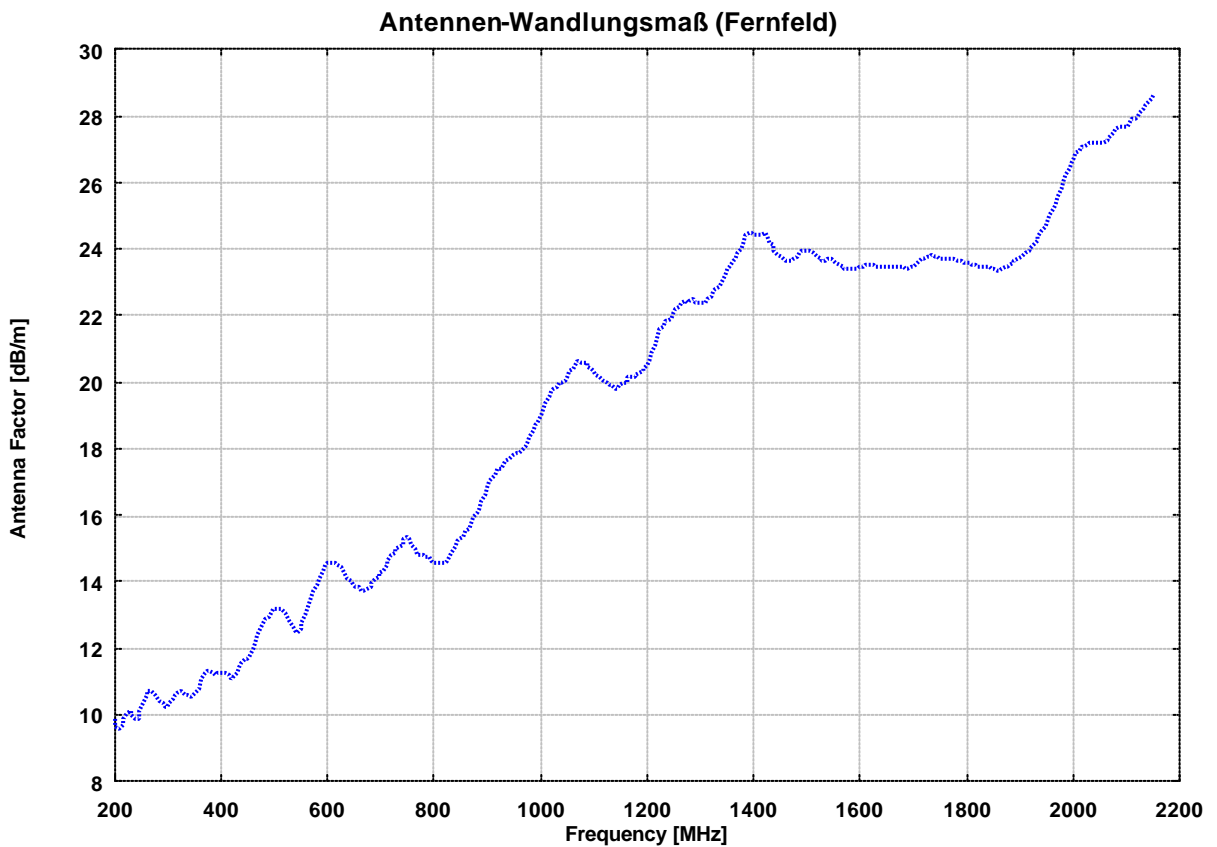
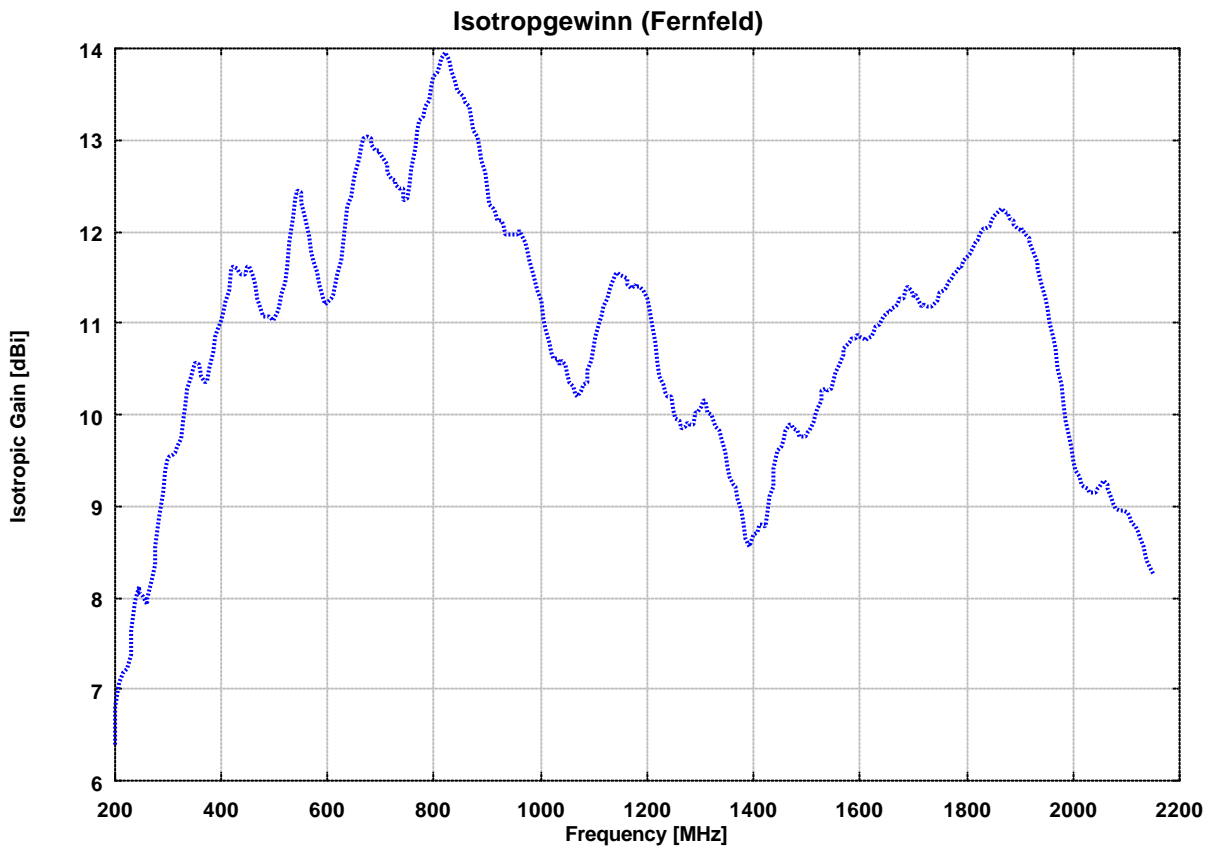
## **Doppelsteg Breitband-Hornantenne BBHA 9120 F** **Double Ridged Broadband Horn Antenna BBHA 9120 F**

Frequency	Isotropic gain 1 m Aperture	Antenna factor 1 m Aperture		Isotropic gain 3 m Aperture	Antenna factor 3 m Aperture
[MHz]	[dBi]	[dB/m]		[dBi]	[dB/m]
2055.00	6.71	29.77		8.25	28.23
2060.00	6.72	29.78		8.26	28.24
2065.00	6.77	29.75		8.25	28.27
2070.00	6.77	29.77		8.17	28.37
2075.00	6.77	29.79		8.10	28.46
2080.00	6.77	29.81		7.97	28.61
2085.00	6.75	29.85		7.87	28.73
2090.00	6.75	29.87		7.85	28.77
2095.00	6.73	29.91		7.80	28.84
2100.00	6.73	29.93		7.80	28.86
2105.00	6.73	29.96		7.81	28.88
2110.00	6.77	29.94		7.81	28.90
2115.00	6.81	29.92		7.79	28.94
2120.00	6.87	29.88		7.78	28.97
2125.00	6.91	29.86		7.69	29.08
2130.00	6.94	29.85		7.60	29.19
2135.00	6.96	29.85		7.49	29.32
2140.00	6.95	29.88		7.41	29.42
2145.00	6.95	29.90		7.32	29.53
2150.00	6.96	29.91		7.30	29.57

# SCHWARZBECK MESS - ELEKTRONIK

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

## Doppelsteg Breitband-Hornantenne BBHA 9120 F *Double Ridged Broadband Horn Antenna BBHA 9120 F*



# SCHWARZBECK MESS - ELEKTRONIK

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

## Doppelsteg Breitband-Hornantenne BBHA 9120 F *Double Ridged Broadband Horn Antenna BBHA 9120 F*

Frequency	Isotropic gain (Farfield)	Antenna factor (Farfield)
[MHz]	[dBi]	[dB/m]
180.00	3.88	11.45
185.00	4.74	10.82
190.00	5.33	10.47
195.00	5.83	10.19
200.00	6.39	9.85
205.00	6.82	9.64
210.00	7.08	9.58
215.00	7.18	9.69
220.00	7.18	9.89
225.00	7.23	10.03
230.00	7.38	10.07
235.00	7.64	10.00
240.00	7.97	9.85
245.00	8.13	9.87
250.00	8.07	10.11
255.00	8.01	10.34
260.00	7.93	10.59
265.00	7.99	10.69
270.00	8.16	10.69
275.00	8.37	10.64
280.00	8.56	10.60
285.00	8.88	10.44
290.00	9.15	10.32
295.00	9.38	10.24
300.00	9.50	10.26
305.00	9.54	10.37
310.00	9.57	10.48
315.00	9.59	10.60
320.00	9.65	10.67
325.00	9.75	10.71
330.00	9.94	10.65
335.00	10.10	10.62
340.00	10.29	10.56
345.00	10.44	10.54
350.00	10.52	10.58
355.00	10.58	10.64
360.00	10.56	10.79
365.00	10.43	11.04
370.00	10.36	11.22
375.00	10.39	11.31
380.00	10.50	11.32
385.00	10.68	11.25
390.00	10.86	11.18
395.00	10.92	11.23
400.00	11.04	11.22
405.00	11.13	11.24

Frequency	Isotropic gain (Farfield)	Antenna factor (Farfield)
[MHz]	[dBi]	[dB/m]
410.00	11.23	11.25
415.00	11.38	11.20
420.00	11.59	11.09
425.00	11.63	11.16
430.00	11.59	11.30
435.00	11.57	11.42
440.00	11.53	11.56
445.00	11.54	11.65
450.00	11.64	11.64
455.00	11.62	11.76
460.00	11.52	11.96
465.00	11.42	12.15
470.00	11.29	12.37
475.00	11.15	12.60
480.00	11.08	12.76
485.00	11.08	12.85
490.00	11.08	12.94
495.00	11.06	13.05
500.00	11.05	13.15
505.00	11.11	13.18
510.00	11.19	13.18
515.00	11.32	13.14
520.00	11.47	13.07
525.00	11.64	12.98
530.00	11.90	12.81
535.00	12.17	12.62
540.00	12.36	12.51
545.00	12.46	12.49
550.00	12.44	12.59
555.00	12.33	12.78
560.00	12.15	13.03
565.00	11.94	13.32
570.00	11.78	13.56
575.00	11.69	13.72
580.00	11.57	13.92
585.00	11.43	14.13
590.00	11.28	14.36
595.00	11.22	14.49
600.00	11.24	14.54
605.00	11.27	14.59
610.00	11.32	14.61
615.00	11.42	14.58
620.00	11.55	14.52
625.00	11.69	14.45
630.00	11.88	14.33
635.00	12.09	14.19

# SCHWARZBECK MESS - ELEKTRONIK

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

## Doppelsteg Breitband-Hornantenne BBHA 9120 F *Double Ridged Broadband Horn Antenna BBHA 9120 F*

Frequency	Isotropic gain (Farfield)	Antenna factor (Farfield)
[MHz]	[dBi]	[dB/m]
640.00	12.28	14.06
645.00	12.41	14.00
650.00	12.54	13.94
655.00	12.67	13.87
660.00	12.80	13.81
665.00	12.94	13.74
670.00	13.02	13.72
675.00	13.04	13.77
680.00	13.02	13.85
685.00	12.96	13.97
690.00	12.89	14.11
695.00	12.89	14.17
700.00	12.87	14.25
705.00	12.82	14.36
710.00	12.75	14.50
715.00	12.64	14.67
720.00	12.59	14.78
725.00	12.56	14.87
730.00	12.52	14.97
735.00	12.47	15.08
740.00	12.47	15.13
745.00	12.35	15.31
750.00	12.36	15.36
755.00	12.51	15.27
760.00	12.70	15.14
765.00	12.92	14.97
770.00	13.11	14.84
775.00	13.22	14.79
780.00	13.28	14.78
785.00	13.37	14.75
790.00	13.44	14.73
795.00	13.58	14.65
800.00	13.70	14.58
805.00	13.75	14.59
810.00	13.82	14.57
815.00	13.90	14.54
820.00	13.97	14.53
825.00	13.93	14.62
830.00	13.88	14.72
835.00	13.78	14.87
840.00	13.63	15.08
845.00	13.55	15.21
850.00	13.53	15.28
855.00	13.49	15.37
860.00	13.42	15.49
865.00	13.38	15.58
870.00	13.24	15.77

Frequency	Isotropic gain (Farfield)	Antenna factor (Farfield)
[MHz]	[dBi]	[dB/m]
875.00	13.11	15.95
880.00	13.04	16.07
885.00	12.95	16.21
890.00	12.78	16.43
895.00	12.64	16.62
900.00	12.48	16.82
905.00	12.32	17.03
910.00	12.26	17.14
915.00	12.21	17.24
920.00	12.14	17.36
925.00	12.12	17.42
930.00	12.09	17.50
935.00	11.99	17.65
940.00	11.97	17.71
945.00	11.99	17.74
950.00	11.96	17.81
955.00	11.99	17.83
960.00	12.02	17.85
965.00	11.97	17.94
970.00	11.88	18.08
975.00	11.80	18.20
980.00	11.68	18.36
985.00	11.55	18.54
990.00	11.45	18.68
995.00	11.37	18.81
1000.00	11.25	18.97
1005.00	11.06	19.20
1010.00	10.94	19.37
1015.00	10.79	19.56
1020.00	10.68	19.71
1025.00	10.62	19.81
1030.00	10.63	19.85
1035.00	10.56	19.96
1040.00	10.59	19.97
1045.00	10.56	20.04
1050.00	10.45	20.19
1055.00	10.35	20.34
1060.00	10.31	20.42
1065.00	10.22	20.55
1070.00	10.20	20.61
1075.00	10.27	20.58
1080.00	10.33	20.56
1085.00	10.36	20.57
1090.00	10.48	20.49
1095.00	10.60	20.41
1100.00	10.72	20.33
1105.00	10.85	20.24

# SCHWARZBECK MESS - ELEKTRONIK

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

## Doppelsteg Breitband-Hornantenne BBHA 9120 F Double Ridged Broadband Horn Antenna BBHA 9120 F

Frequency	Isotropic gain (Farfield)	Antenna factor (Farfield)
[MHz]	[dBi]	[dB/m]
1110.00	11.01	20.12
1115.00	11.08	20.09
1120.00	11.18	20.02
1125.00	11.28	19.96
1130.00	11.37	19.91
1135.00	11.42	19.90
1140.00	11.54	19.82
1145.00	11.57	19.83
1150.00	11.53	19.90
1155.00	11.52	19.95
1160.00	11.49	20.02
1165.00	11.43	20.12
1170.00	11.39	20.19
1175.00	11.42	20.20
1180.00	11.41	20.25
1185.00	11.40	20.29
1190.00	11.38	20.35
1195.00	11.36	20.41
1200.00	11.29	20.51
1205.00	11.17	20.67
1210.00	11.02	20.86
1215.00	10.80	21.11
1220.00	10.57	21.38
1225.00	10.42	21.56
1230.00	10.33	21.69
1235.00	10.24	21.81
1240.00	10.21	21.88
1245.00	10.20	21.92
1250.00	10.05	22.11
1255.00	9.97	22.22
1260.00	9.94	22.29
1265.00	9.86	22.40
1270.00	9.87	22.43
1275.00	9.93	22.40
1280.00	9.90	22.46
1285.00	9.89	22.51
1290.00	10.03	22.40
1295.00	10.04	22.43
1300.00	10.10	22.40
1305.00	10.16	22.37
1310.00	10.15	22.42
1315.00	10.04	22.56
1320.00	10.02	22.61
1325.00	9.95	22.71
1330.00	9.87	22.83
1335.00	9.85	22.88
1340.00	9.76	23.00

Frequency	Isotropic gain (Farfield)	Antenna factor (Farfield)
[MHz]	[dBi]	[dB/m]
1345.00	9.60	23.19
1350.00	9.45	23.38
1355.00	9.34	23.52
1360.00	9.23	23.66
1365.00	9.21	23.71
1370.00	9.09	23.86
1375.00	8.95	24.04
1380.00	8.84	24.18
1385.00	8.66	24.39
1390.00	8.57	24.51
1395.00	8.62	24.49
1400.00	8.69	24.45
1405.00	8.71	24.46
1410.00	8.81	24.39
1415.00	8.79	24.45
1420.00	8.77	24.50
1425.00	8.94	24.36
1430.00	9.11	24.22
1435.00	9.22	24.14
1440.00	9.42	23.97
1445.00	9.61	23.81
1450.00	9.67	23.78
1455.00	9.72	23.76
1460.00	9.85	23.66
1465.00	9.90	23.64
1470.00	9.90	23.67
1475.00	9.86	23.74
1480.00	9.83	23.80
1485.00	9.78	23.87
1490.00	9.78	23.90
1495.00	9.77	23.94
1500.00	9.80	23.94
1505.00	9.84	23.93
1510.00	9.91	23.89
1515.00	9.99	23.84
1520.00	10.07	23.79
1525.00	10.15	23.74
1530.00	10.26	23.65
1535.00	10.29	23.65
1540.00	10.28	23.69
1545.00	10.30	23.70
1550.00	10.38	23.65
1555.00	10.46	23.59
1560.00	10.56	23.52
1565.00	10.66	23.45
1570.00	10.73	23.41
1575.00	10.78	23.39

# SCHWARZBECK MESS - ELEKTRONIK

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

## Doppelsteg Breitband-Hornantenne BBHA 9120 F Double Ridged Broadband Horn Antenna BBHA 9120 F

Frequency	Isotropic gain (Farfield)	Antenna factor (Farfield)
[MHz]	[dBi]	[dB/m]
1580.00	10.80	23.39
1585.00	10.83	23.39
1590.00	10.84	23.41
1595.00	10.88	23.40
1600.00	10.85	23.45
1605.00	10.84	23.49
1610.00	10.82	23.54
1615.00	10.84	23.54
1620.00	10.85	23.56
1625.00	10.91	23.53
1630.00	10.97	23.49
1635.00	10.99	23.50
1640.00	11.04	23.48
1645.00	11.08	23.46
1650.00	11.12	23.45
1655.00	11.13	23.47
1660.00	11.17	23.45
1665.00	11.18	23.47
1670.00	11.21	23.46
1675.00	11.27	23.43
1680.00	11.29	23.44
1685.00	11.37	23.38
1690.00	11.40	23.38
1695.00	11.37	23.43
1700.00	11.31	23.52
1705.00	11.32	23.53
1710.00	11.23	23.65
1715.00	11.19	23.72
1720.00	11.21	23.72
1725.00	11.18	23.78
1730.00	11.18	23.80
1735.00	11.20	23.81
1740.00	11.23	23.80
1745.00	11.26	23.80
1750.00	11.34	23.74
1755.00	11.36	23.75
1760.00	11.39	23.74
1765.00	11.48	23.67
1770.00	11.50	23.68
1775.00	11.53	23.67
1780.00	11.58	23.65
1785.00	11.62	23.63
1790.00	11.64	23.64
1795.00	11.69	23.61
1800.00	11.74	23.59
1805.00	11.75	23.60
1810.00	11.81	23.56

Frequency	Isotropic gain (Farfield)	Antenna factor (Farfield)
[MHz]	[dBi]	[dB/m]
1815.00	11.87	23.53
1820.00	11.91	23.51
1825.00	11.97	23.48
1830.00	12.03	23.44
1835.00	12.04	23.45
1840.00	12.07	23.45
1845.00	12.14	23.40
1850.00	12.17	23.39
1855.00	12.22	23.37
1860.00	12.24	23.37
1865.00	12.26	23.37
1870.00	12.23	23.43
1875.00	12.22	23.46
1880.00	12.16	23.54
1885.00	12.14	23.59
1890.00	12.09	23.66
1895.00	12.05	23.72
1900.00	12.02	23.78
1905.00	12.03	23.79
1910.00	11.97	23.87
1915.00	11.93	23.93
1920.00	11.87	24.02
1925.00	11.77	24.14
1930.00	11.67	24.26
1935.00	11.59	24.36
1940.00	11.43	24.55
1945.00	11.28	24.72
1950.00	11.16	24.86
1955.00	11.01	25.03
1960.00	10.83	25.24
1965.00	10.73	25.36
1970.00	10.52	25.59
1975.00	10.33	25.80
1980.00	10.13	26.02
1985.00	9.95	26.23
1990.00	9.76	26.44
1995.00	9.63	26.59
2000.00	9.48	26.76
2005.00	9.39	26.87
2010.00	9.33	26.95
2015.00	9.23	27.08
2020.00	9.22	27.11
2025.00	9.20	27.15
2030.00	9.17	27.20
2035.00	9.16	27.23
2040.00	9.17	27.24
2045.00	9.19	27.24



# SCHWARZBECK MESS - ELEKTRONIK

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

## **Doppelsteg Breitband-Hornantenne BBHA 9120 F** ***Double Ridged Broadband Horn Antenna BBHA 9120 F***

Frequency	Isotropic gain (Farfield)	Antenna factor (Farfield)
[MHz]	[dBi]	[dB/m]
2050.00	9.22	27.24
2055.00	9.29	27.19
2060.00	9.23	27.27
2065.00	9.20	27.32
2070.00	9.10	27.44
2075.00	9.03	27.53
2080.00	8.97	27.61
2085.00	8.96	27.64
2090.00	8.95	27.67
2095.00	8.95	27.69
2100.00	8.94	27.72
2105.00	8.90	27.79
2110.00	8.83	27.88
2115.00	8.77	27.96
2120.00	8.73	28.02
2125.00	8.67	28.10
2130.00	8.55	28.24
2135.00	8.45	28.36
2140.00	8.38	28.45
2145.00	8.31	28.54
2150.00	8.26	28.61