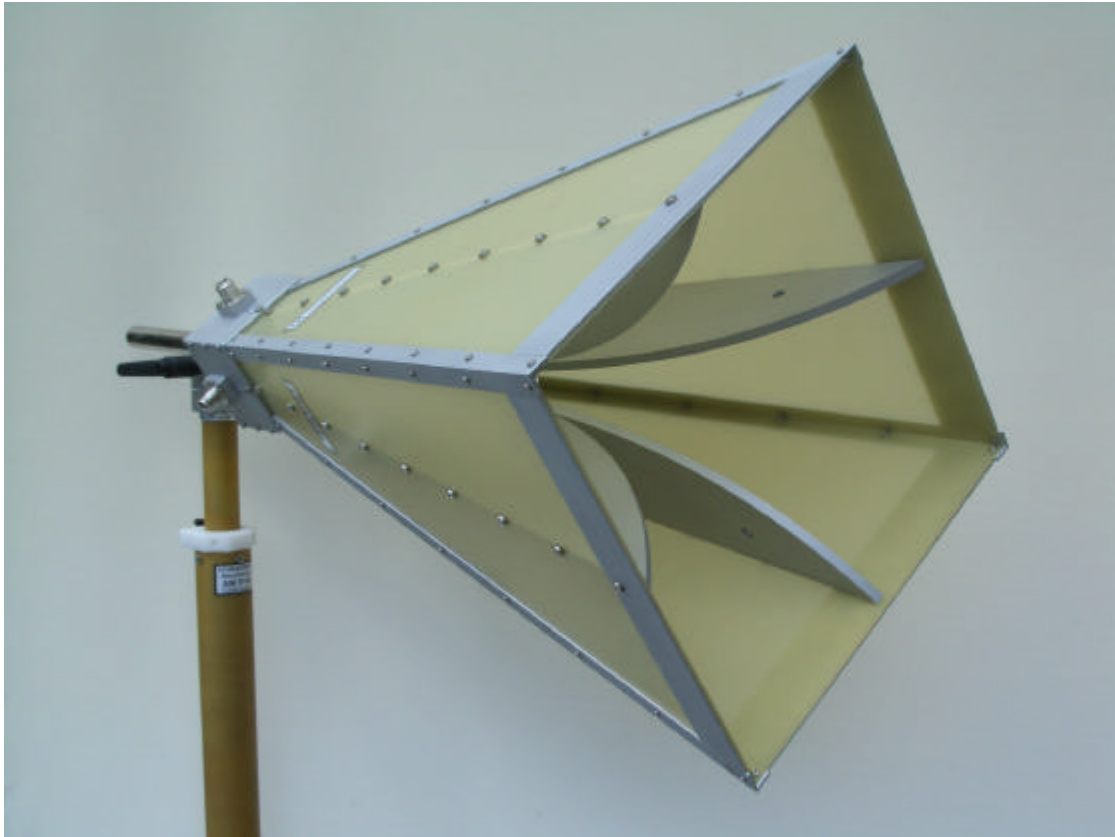


SCHWARZBECK MESS - ELEKTRONIK

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

Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*



Technische Daten:

Dual polarisierte Doppelsteg
Breitband Hornantenne für
Sende- und
Empfangsanwendungen

Frequenzbereich nominell: 0.7 - 7 GHz
Frequenzbereich nutzbar: 0.4 - 10 GHz
Anschluß: Buchse 50 W N
Befestigungsrohr: $d=22\text{ mm}, L=200\text{ mm}$
Isotropgewinn: typ. 6...15 dBi
(0.7 - 7 GHz)
Antennenwandlungsmaß: 20 ... 34 dB/m
Unterschiede der
Polarisationsebenen: $< \pm 0.5\text{ dB } f < 4.8\text{ GHz}$
 $< \pm 1.5\text{ dB } f > 4.8\text{ GHz}$
SWR typ.: 2

Inversionssymmetrie: typ. $< 0.5\text{ dB}$

Entkopplung der Ebenen: $< -26\text{ dB}$
Unterdrückung der
Kreuzpolarisation: $< -25\text{ dB typ.}$
Max. Eingangsleistung: 200 W
Abmessungen: 320 x 320 x 615
Gewicht: 6 kg

Specifications:

*Dual polarised double ridge
broadband horn antenna for
receive and transmit applications*

*Nominal Frequency range:
Useable Frequency range:
Connector: female
Mounting tube:
Isotropic gain:*

*Antenna Factor:
Difference of the Polarisation
Planes:
SWR typ.:*

Inversion Symmetry:

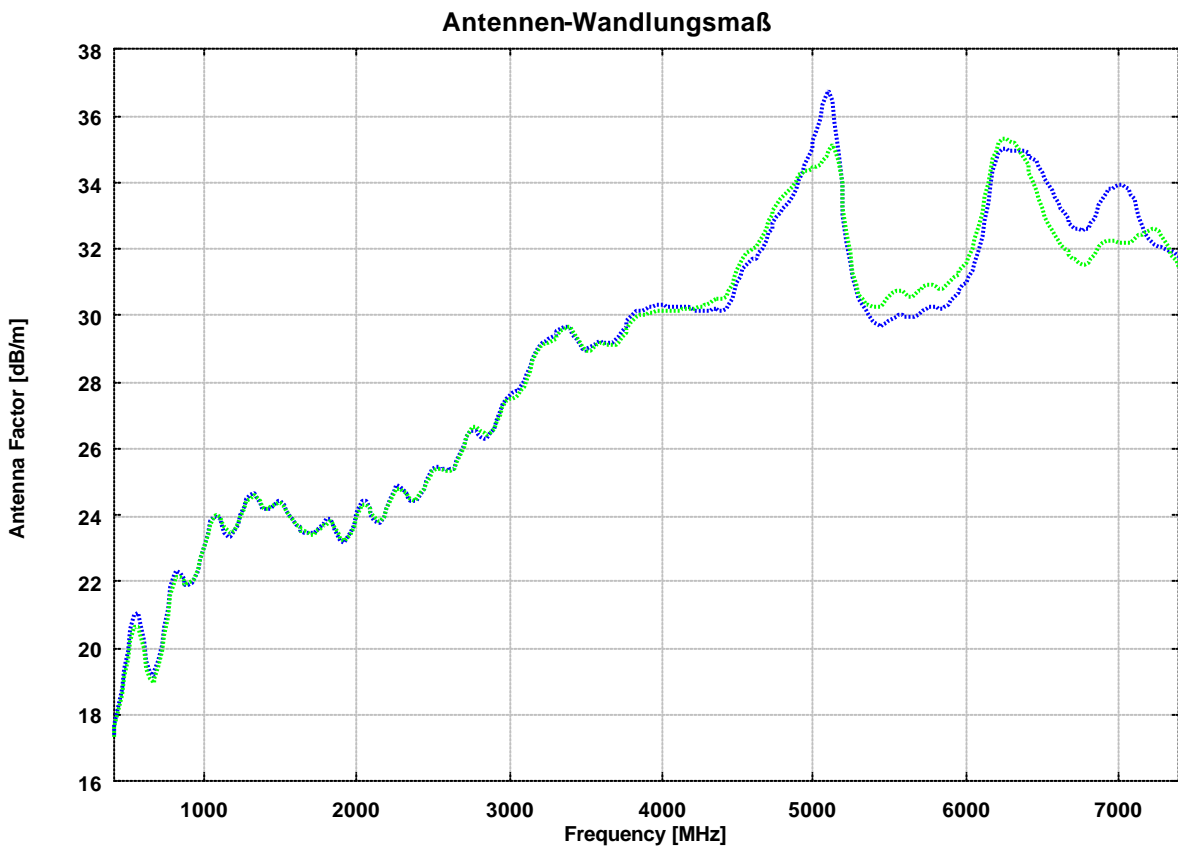
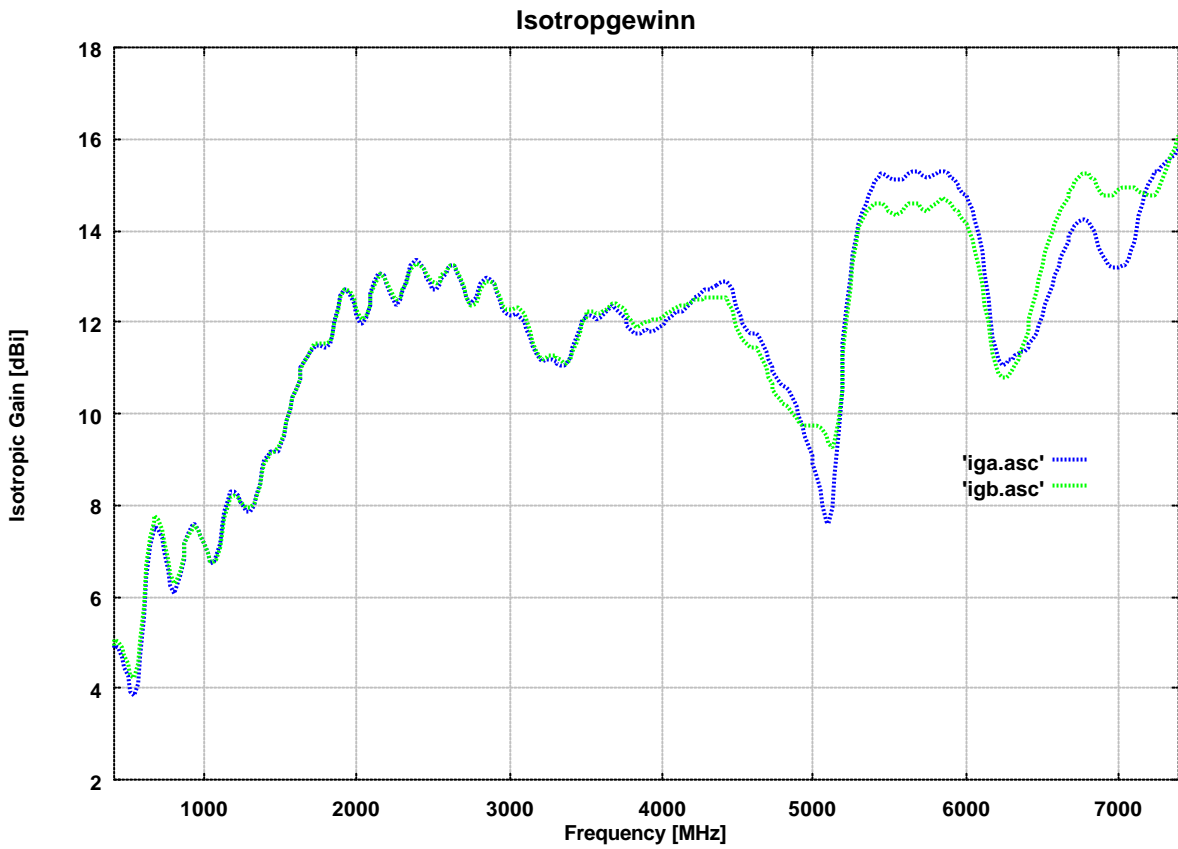
*Port Isolation:
Cross Polar Rejection:*

*Max. Input Power:
Dimensions:
Weight:*

SCHWARZBECK MESS - ELEKTRONIK

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

Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*



SCHWARZBECK MESS - ELEKTRONIK

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

Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*

Frequency	Section A Gain (Isotr.)	Section A Ant.-Factor	Section B Gain (Isotr.)	Section B Ant.-Factor
MHz	dBi	dB/m	dBi	dB/m
400.00	4.87	17.39	4.95	17.31
420.00	4.95	17.73	5.05	17.63
440.00	4.87	18.22	5.01	18.08
460.00	4.68	18.79	4.89	18.59
480.00	4.48	19.36	4.71	19.13
500.00	4.27	19.93	4.52	19.68
520.00	3.95	20.59	4.28	20.26
540.00	3.85	21.02	4.24	20.63
560.00	4.10	21.08	4.53	20.65
580.00	4.71	20.78	5.08	20.41
600.00	5.57	20.21	5.83	19.95
620.00	6.45	19.62	6.68	19.39
640.00	7.11	19.24	7.31	19.03
660.00	7.45	19.16	7.65	18.96
680.00	7.56	19.31	7.78	19.09
700.00	7.49	19.63	7.69	19.43
720.00	7.29	20.08	7.47	19.90
740.00	6.99	20.61	7.20	20.41
760.00	6.62	21.21	6.85	20.98
780.00	6.25	21.81	6.50	21.57
800.00	6.08	22.20	6.29	21.99
820.00	6.20	22.29	6.35	22.15
840.00	6.47	22.24	6.56	22.15
860.00	6.85	22.06	6.90	22.01
880.00	7.19	21.92	7.19	21.92
900.00	7.40	21.90	7.36	21.95
920.00	7.54	21.96	7.48	22.02
940.00	7.59	22.09	7.54	22.14
960.00	7.50	22.36	7.47	22.39
980.00	7.36	22.68	7.36	22.68
1000.00	7.16	23.06	7.19	23.03
1020.00	6.92	23.47	6.98	23.41
1040.00	6.74	23.82	6.81	23.75
1060.00	6.75	23.98	6.79	23.93
1080.00	6.89	24.00	6.85	24.03
1100.00	7.17	23.88	7.06	23.99
1120.00	7.55	23.66	7.39	23.81
1140.00	7.89	23.47	7.73	23.63
1160.00	8.14	23.37	8.00	23.51
1180.00	8.31	23.35	8.20	23.46
1200.00	8.31	23.49	8.23	23.57
1220.00	8.21	23.74	8.18	23.77
1240.00	8.07	24.02	8.09	24.00
1260.00	7.95	24.28	8.01	24.21
1280.00	7.88	24.49	7.96	24.40
1300.00	7.89	24.61	7.96	24.53
1320.00	8.00	24.63	8.03	24.60
1340.00	8.22	24.54	8.20	24.56
1360.00	8.52	24.37	8.45	24.44
1380.00	8.82	24.19	8.74	24.27
1400.00	8.99	24.15	8.92	24.22
1420.00	9.11	24.16	9.06	24.21

SCHWARZBECK MESS - ELEKTRONIK

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

Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*

Frequency	Section A Gain (Isotr.)	Section A Ant.-Factor	Section B Gain (Isotr.)	Section B Ant.-Factor
MHz	dBi	dB/m	dBi	dB/m
1440.00	9.17	24.22	9.14	24.25
1460.00	9.18	24.33	9.19	24.32
1480.00	9.20	24.42	9.25	24.38
1500.00	9.32	24.42	9.38	24.37
1520.00	9.53	24.33	9.58	24.28
1540.00	9.83	24.14	9.85	24.12
1560.00	10.11	23.98	10.10	23.98
1580.00	10.33	23.86	10.33	23.87
1600.00	10.55	23.75	10.56	23.75
1620.00	10.78	23.63	10.78	23.63
1640.00	10.99	23.53	10.98	23.54
1660.00	11.16	23.46	11.15	23.48
1680.00	11.29	23.43	11.30	23.43
1700.00	11.38	23.45	11.41	23.42
1720.00	11.47	23.46	11.51	23.42
1740.00	11.49	23.54	11.54	23.49
1760.00	11.49	23.65	11.55	23.58
1780.00	11.46	23.77	11.55	23.68
1800.00	11.47	23.86	11.57	23.75
1820.00	11.52	23.90	11.60	23.82
1840.00	11.71	23.80	11.75	23.77
1860.00	12.00	23.61	11.98	23.63
1880.00	12.33	23.37	12.28	23.43
1900.00	12.59	23.21	12.54	23.26
1920.00	12.74	23.15	12.70	23.19
1940.00	12.73	23.25	12.71	23.26
1960.00	12.62	23.44	12.66	23.41
1980.00	12.42	23.74	12.50	23.65
2000.00	12.17	24.07	12.30	23.94
2020.00	11.98	24.34	12.13	24.20
2040.00	11.97	24.44	12.08	24.33
2060.00	12.11	24.39	12.17	24.33
2080.00	12.37	24.21	12.38	24.20
2100.00	12.65	24.02	12.61	24.06
2120.00	12.89	23.85	12.83	23.92
2140.00	13.06	23.77	13.00	23.83
2160.00	13.11	23.79	13.07	23.84
2180.00	13.04	23.95	13.01	23.97
2200.00	12.87	24.20	12.88	24.18
2220.00	12.65	24.50	12.71	24.43
2240.00	12.47	24.75	12.56	24.66
2260.00	12.41	24.89	12.51	24.80
2280.00	12.51	24.87	12.57	24.81
2300.00	12.69	24.77	12.71	24.74
2320.00	12.88	24.65	12.87	24.66
2340.00	13.08	24.52	13.03	24.57
2360.00	13.25	24.43	13.17	24.51
2380.00	13.35	24.40	13.28	24.47
2400.00	13.36	24.46	13.30	24.52
2420.00	13.29	24.60	13.25	24.65
2440.00	13.17	24.80	13.16	24.80
2460.00	13.01	25.03	13.06	24.98

SCHWARZBECK MESS - ELEKTRONIK

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

Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*

Frequency	Section A Gain (Isotr.)	Section A Ant.-Factor	Section B Gain (Isotr.)	Section B Ant.-Factor
MHz	dBi	dB/m	dBi	dB/m
2480.00	12.86	25.25	12.96	25.15
2500.00	12.76	25.42	12.88	25.30
2520.00	12.76	25.49	12.87	25.38
2540.00	12.85	25.46	12.94	25.38
2560.00	12.97	25.42	13.03	25.35
2580.00	13.08	25.37	13.13	25.32
2600.00	13.18	25.34	13.21	25.31
2620.00	13.24	25.35	13.26	25.33
2640.00	13.23	25.42	13.26	25.39
2660.00	13.13	25.59	13.17	25.55
2680.00	12.95	25.83	13.00	25.78
2700.00	12.73	26.12	12.77	26.07
2720.00	12.53	26.38	12.54	26.37
2740.00	12.45	26.53	12.40	26.58
2760.00	12.47	26.57	12.37	26.67
2780.00	12.58	26.52	12.44	26.67
2800.00	12.73	26.43	12.57	26.59
2820.00	12.86	26.36	12.71	26.51
2840.00	12.97	26.32	12.85	26.44
2860.00	13.01	26.33	12.94	26.41
2880.00	12.96	26.44	12.94	26.47
2900.00	12.84	26.62	12.86	26.61
2920.00	12.66	26.86	12.71	26.82
2940.00	12.47	27.12	12.54	27.05
2960.00	12.30	27.34	12.38	27.27
2980.00	12.20	27.50	12.29	27.41
3000.00	12.17	27.60	12.28	27.49
3020.00	12.17	27.65	12.29	27.53
3040.00	12.18	27.70	12.33	27.55
3060.00	12.17	27.76	12.33	27.61
3080.00	12.12	27.87	12.29	27.71
3100.00	12.02	28.03	12.19	27.86
3120.00	11.86	28.24	12.03	28.07
3140.00	11.68	28.48	11.82	28.34
3160.00	11.48	28.74	11.59	28.62
3180.00	11.31	28.96	11.40	28.87
3200.00	11.20	29.12	11.27	29.06
3220.00	11.16	29.22	11.22	29.15
3240.00	11.18	29.26	11.25	29.18
3260.00	11.18	29.30	11.28	29.20
3280.00	11.17	29.36	11.29	29.25
3300.00	11.15	29.44	11.29	29.30
3320.00	11.11	29.53	11.24	29.40
3340.00	11.06	29.63	11.17	29.52
3360.00	11.06	29.69	11.12	29.63
3380.00	11.10	29.69	11.11	29.69
3400.00	11.25	29.60	11.18	29.67
3420.00	11.46	29.44	11.36	29.54
3440.00	11.68	29.27	11.57	29.38
3460.00	11.89	29.11	11.80	29.20
3480.00	12.05	29.00	12.00	29.06
3500.00	12.13	28.97	12.13	28.97

SCHWARZBECK MESS - ELEKTRONIK

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

Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Brodband Horn Antenna BBHX 9120 E*

Frequency	Section A Gain (Isotr.)	Section A Ant.-Factor	Section B Gain (Isotr.)	Section B Ant.-Factor
MHz	dBi	dB/m	dBi	dB/m
3520.00	12.17	28.98	12.21	28.94
3540.00	12.16	29.04	12.23	28.97
3560.00	12.13	29.12	12.21	29.04
3580.00	12.10	29.19	12.18	29.11
3600.00	12.11	29.24	12.18	29.17
3620.00	12.17	29.22	12.23	29.17
3640.00	12.25	29.20	12.30	29.14
3660.00	12.32	29.17	12.39	29.10
3680.00	12.35	29.19	12.44	29.09
3700.00	12.31	29.27	12.45	29.14
3720.00	12.24	29.39	12.41	29.22
3740.00	12.14	29.53	12.34	29.34
3760.00	12.04	29.69	12.24	29.48
3780.00	11.95	29.82	12.15	29.62
3800.00	11.84	29.98	12.03	29.79
3820.00	11.78	30.08	11.95	29.91
3840.00	11.77	30.14	11.92	29.99
3860.00	11.78	30.17	11.94	30.01
3880.00	11.82	30.18	11.98	30.01
3900.00	11.83	30.21	12.01	30.03
3920.00	11.80	30.28	12.01	30.08
3940.00	11.82	30.31	12.03	30.10
3960.00	11.83	30.34	12.04	30.13
3980.00	11.87	30.35	12.07	30.14
4000.00	11.94	30.32	12.12	30.14
4020.00	11.98	30.32	12.15	30.16
4040.00	12.04	30.31	12.18	30.17
4060.00	12.11	30.28	12.24	30.15
4080.00	12.16	30.27	12.29	30.14
4100.00	12.21	30.27	12.34	30.14
4120.00	12.24	30.28	12.35	30.16
4140.00	12.27	30.29	12.36	30.20
4160.00	12.33	30.27	12.40	30.21
4180.00	12.41	30.23	12.44	30.20
4200.00	12.49	30.19	12.48	30.21
4220.00	12.57	30.16	12.51	30.22
4240.00	12.62	30.15	12.52	30.25
4260.00	12.67	30.14	12.52	30.29
4280.00	12.70	30.15	12.53	30.32
4300.00	12.72	30.17	12.54	30.35
4320.00	12.75	30.18	12.53	30.40
4340.00	12.78	30.19	12.53	30.44
4360.00	12.81	30.20	12.53	30.48
4380.00	12.87	30.18	12.55	30.50
4400.00	12.91	30.18	12.57	30.52
4420.00	12.91	30.22	12.53	30.60
4440.00	12.85	30.32	12.45	30.72
4460.00	12.70	30.51	12.29	30.92
4480.00	12.50	30.74	12.10	31.15
4500.00	12.32	30.96	11.91	31.37
4520.00	12.14	31.18	11.75	31.58
4540.00	11.98	31.38	11.62	31.74

SCHWARZBECK MESS - ELEKTRONIK

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

Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*

Frequency	Section A Gain (Isotr.)	Section A Ant.-Factor	Section B Gain (Isotr.)	Section B Ant.-Factor
MHz	dBi	dB/m	dBi	dB/m
4560.00	11.86	31.54	11.53	31.87
4580.00	11.78	31.65	11.47	31.97
4600.00	11.77	31.71	11.47	32.01
4620.00	11.76	31.75	11.45	32.06
4640.00	11.69	31.86	11.37	32.18
4660.00	11.54	32.04	11.21	32.38
4680.00	11.36	32.27	11.01	32.62
4700.00	11.18	32.48	10.81	32.85
4720.00	11.04	32.66	10.67	33.03
4740.00	10.92	32.81	10.54	33.19
4760.00	10.79	32.98	10.42	33.35
4780.00	10.67	33.14	10.31	33.50
4800.00	10.61	33.24	10.24	33.60
4820.00	10.58	33.30	10.21	33.68
4840.00	10.52	33.40	10.15	33.76
4860.00	10.38	33.58	10.05	33.91
4880.00	10.18	33.81	9.92	34.07
4900.00	9.96	34.07	9.81	34.22
4920.00	9.75	34.31	9.75	34.31
4940.00	9.53	34.56	9.74	34.35
4960.00	9.32	34.81	9.74	34.39
4980.00	9.11	35.05	9.75	34.41
5000.00	8.92	35.28	9.76	34.44
5020.00	8.68	35.56	9.75	34.49
5040.00	8.37	35.89	9.73	34.54
5060.00	8.00	36.31	9.66	34.64
5080.00	7.67	36.66	9.54	34.80
5100.00	7.61	36.76	9.37	35.00
5120.00	7.94	36.46	9.25	35.15
5140.00	8.62	35.82	9.39	35.05
5160.00	9.54	34.94	9.84	34.63
5180.00	10.54	33.96	10.51	33.99
5200.00	11.51	33.03	11.29	33.25
5220.00	12.34	32.23	12.06	32.51
5240.00	13.00	31.61	12.75	31.86
5260.00	13.49	31.15	13.32	31.32
5280.00	13.88	30.80	13.76	30.91
5300.00	14.18	30.53	14.06	30.64
5320.00	14.42	30.32	14.27	30.47
5340.00	14.62	30.15	14.40	30.37
5360.00	14.80	30.00	14.48	30.32
5380.00	14.95	29.88	14.55	30.29
5400.00	15.09	29.78	14.61	30.26
5420.00	15.19	29.71	14.64	30.26
5440.00	15.24	29.69	14.64	30.29
5460.00	15.25	29.72	14.59	30.37
5480.00	15.22	29.77	14.51	30.49
5500.00	15.17	29.85	14.43	30.60
5520.00	15.13	29.93	14.38	30.68
5540.00	15.10	29.99	14.35	30.74
5560.00	15.11	30.01	14.38	30.74
5580.00	15.14	30.01	14.44	30.71

SCHWARZBECK MESS - ELEKTRONIK

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

Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*

Frequency	Section A Gain (Isotr.)	Section A Ant.-Factor	Section B Gain (Isotr.)	Section B Ant.-Factor
MHz	dBi	dB/m	dBi	dB/m
5600.00	15.20	29.98	14.52	30.66
5620.00	15.26	29.95	14.60	30.61
5640.00	15.30	29.94	14.64	30.60
5660.00	15.31	29.96	14.64	30.64
5680.00	15.29	30.02	14.59	30.72
5700.00	15.25	30.09	14.53	30.80
5720.00	15.21	30.15	14.48	30.89
5740.00	15.19	30.21	14.47	30.92
5760.00	15.19	30.24	14.50	30.93
5780.00	15.22	30.24	14.55	30.91
5800.00	15.26	30.23	14.61	30.88
5820.00	15.30	30.22	14.68	30.83
5840.00	15.33	30.22	14.72	30.83
5860.00	15.32	30.26	14.71	30.86
5880.00	15.26	30.35	14.65	30.96
5900.00	15.19	30.44	14.58	31.05
5920.00	15.10	30.57	14.50	31.16
5940.00	15.02	30.68	14.45	31.25
5960.00	14.93	30.80	14.37	31.36
5980.00	14.84	30.92	14.28	31.47
6000.00	14.76	31.02	14.18	31.60
6020.00	14.66	31.15	14.04	31.77
6040.00	14.50	31.34	13.84	32.00
6060.00	14.27	31.60	13.57	32.30
6080.00	13.94	31.96	13.22	32.68
6100.00	13.55	32.38	12.83	33.09
6120.00	13.07	32.88	12.41	33.54
6140.00	12.56	33.42	12.00	33.98
6160.00	12.08	33.93	11.63	34.38
6180.00	11.67	34.37	11.32	34.72
6200.00	11.36	34.71	11.05	35.01
6220.00	11.18	34.92	10.89	35.21
6240.00	11.09	35.04	10.80	35.33
6260.00	11.10	35.05	10.81	35.34
6280.00	11.17	35.01	10.88	35.30
6300.00	11.23	34.98	10.97	35.23
6320.00	11.28	34.96	11.08	35.16
6340.00	11.32	34.94	11.23	35.03
6360.00	11.35	34.94	11.38	34.90
6380.00	11.39	34.93	11.60	34.72
6400.00	11.47	34.88	11.82	34.52
6420.00	11.54	34.83	12.08	34.29
6440.00	11.64	34.76	12.36	34.04
6460.00	11.79	34.64	12.66	33.76
6480.00	11.96	34.49	12.97	33.48
6500.00	12.17	34.31	13.27	33.21
6520.00	12.39	34.11	13.53	32.97
6540.00	12.60	33.93	13.78	32.75
6560.00	12.82	33.74	13.99	32.57
6580.00	13.03	33.55	14.18	32.40
6600.00	13.21	33.40	14.34	32.27
6620.00	13.41	33.23	14.50	32.14

SCHWARZBECK MESS - ELEKTRONIK

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

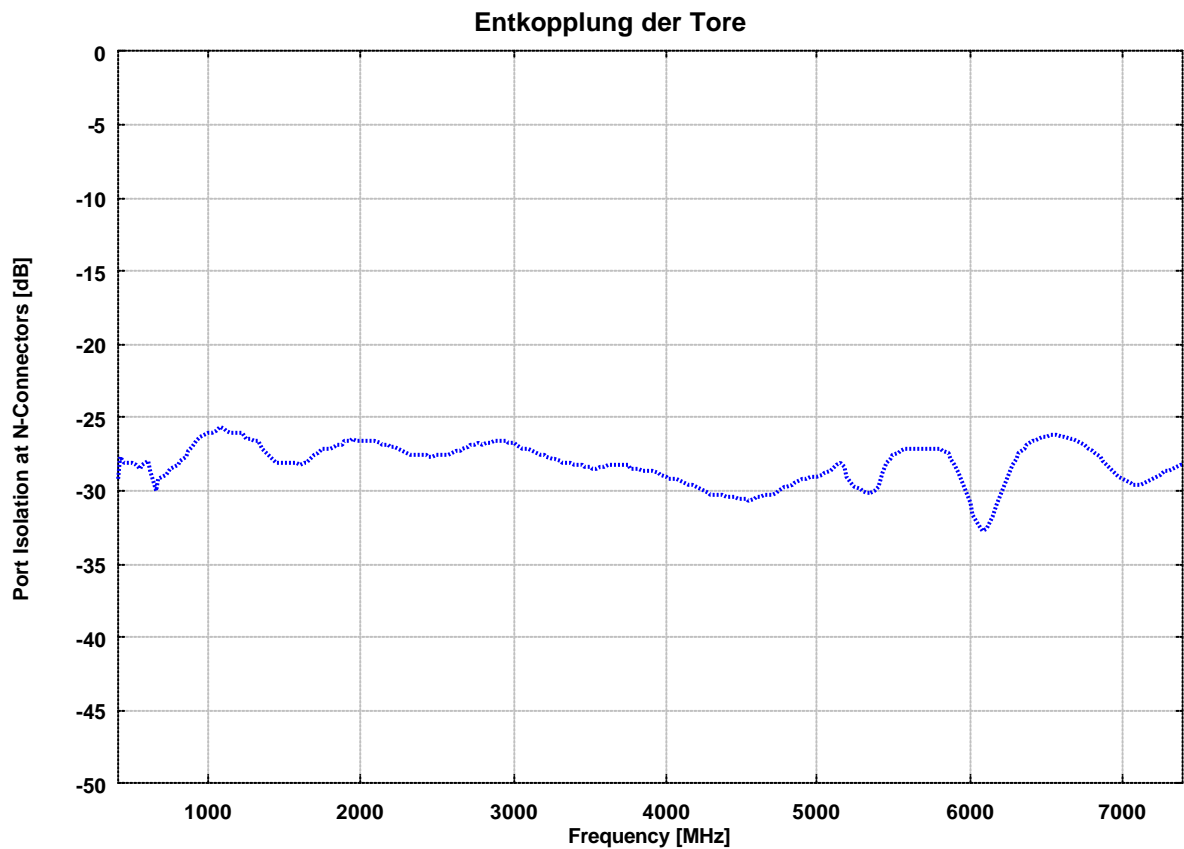
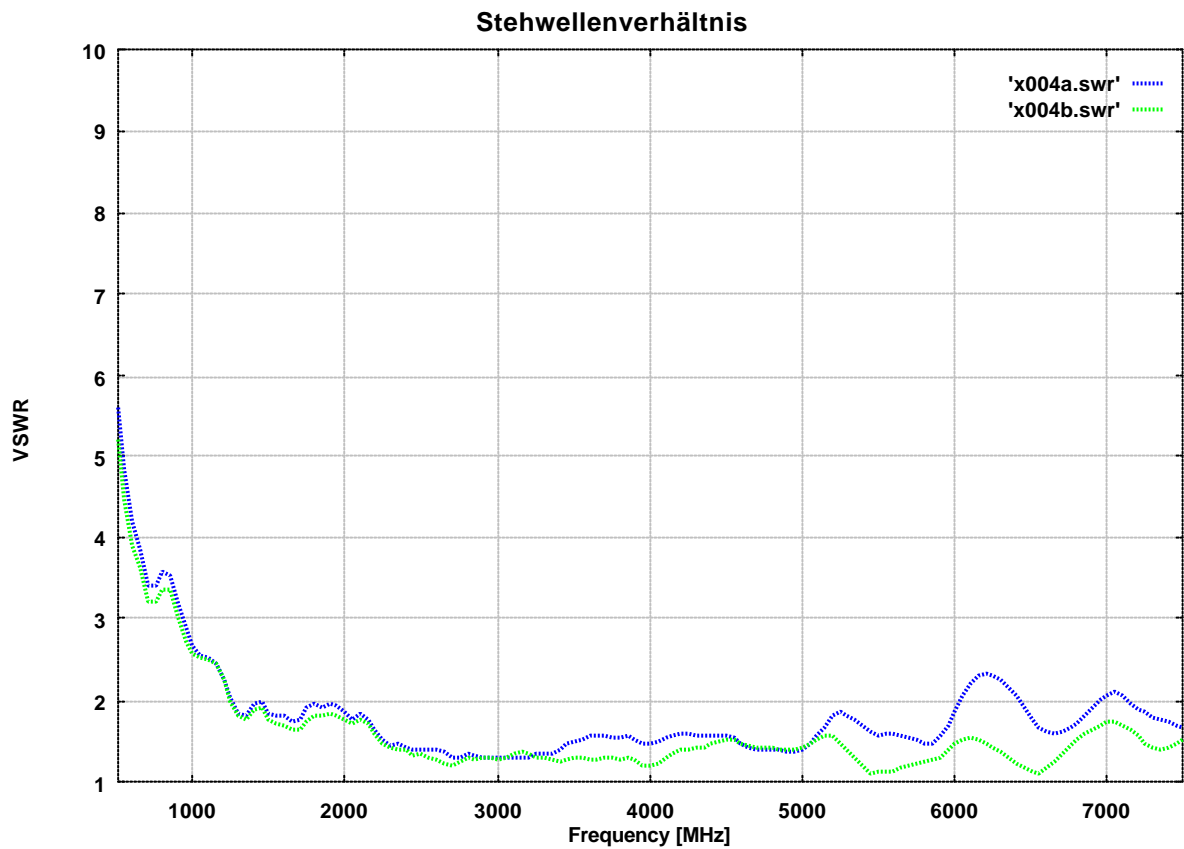
Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*

Frequency	Section A Gain (Isotr.)	Section A Ant.-Factor	Section B Gain (Isotr.)	Section B Ant.-Factor
MHz	dBi	dB/m	dBi	dB/m
6640.00	13.59	33.07	14.62	32.04
6660.00	13.76	32.93	14.74	31.95
6680.00	13.91	32.81	14.86	31.85
6700.00	14.02	32.72	14.98	31.76
6720.00	14.13	32.64	15.09	31.68
6740.00	14.22	32.58	15.18	31.61
6760.00	14.26	32.56	15.25	31.57
6780.00	14.26	32.59	15.27	31.57
6800.00	14.22	32.65	15.26	31.61
6820.00	14.13	32.77	15.20	31.69
6840.00	14.00	32.92	15.11	31.81
6860.00	13.83	33.12	15.00	31.94
6880.00	13.65	33.32	14.90	32.07
6900.00	13.49	33.50	14.81	32.19
6920.00	13.35	33.68	14.76	32.26
6940.00	13.25	33.80	14.76	32.28
6960.00	13.21	33.86	14.80	32.27
6980.00	13.19	33.91	14.85	32.25
7000.00	13.19	33.94	14.89	32.23
7020.00	13.22	33.93	14.94	32.21
7040.00	13.26	33.91	14.97	32.20
7060.00	13.39	33.81	14.99	32.21
7080.00	13.56	33.66	14.99	32.23
7100.00	13.76	33.48	14.95	32.30
7120.00	14.04	33.23	14.92	32.35
7140.00	14.33	32.97	14.88	32.41
7160.00	14.60	32.72	14.85	32.47
7180.00	14.85	32.49	14.83	32.52
7200.00	15.05	32.32	14.80	32.56
7220.00	15.19	32.20	14.80	32.60
7240.00	15.28	32.14	14.82	32.59
7260.00	15.34	32.09	14.91	32.53
7280.00	15.41	32.05	15.05	32.42
7300.00	15.48	32.00	15.24	32.25
7320.00	15.57	31.94	15.46	32.05
7340.00	15.63	31.90	15.68	31.85
7360.00	15.68	31.88	15.80	31.75
7380.00	15.75	31.83	15.95	31.63
7400.00	15.82	31.78	16.10	31.50

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Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*

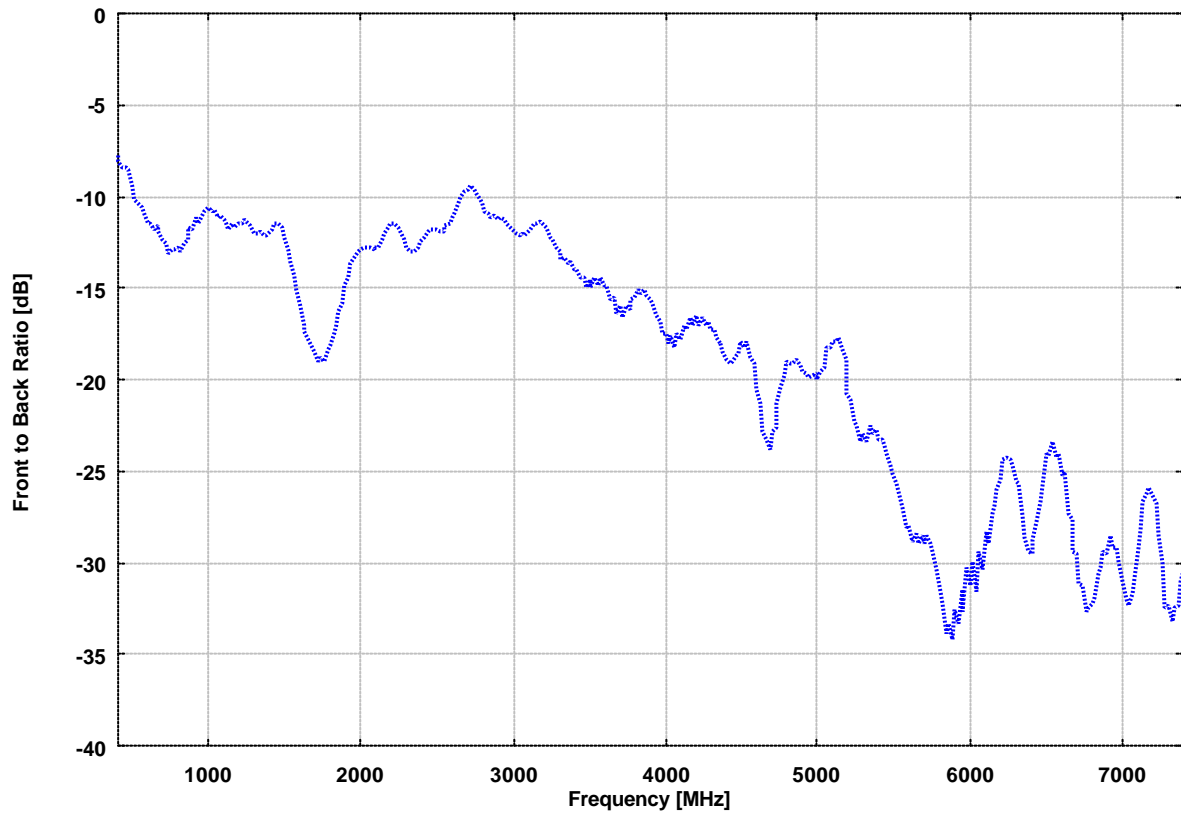


SCHWARZBECK MESS - ELEKTRONIK

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

Dual Polarisierte Breitband Hornantenne BBHX 9120 E *Dual Polarised Broadband Horn Antenna BBHX 9120 E*

Vor- Rückmaß



Unterdrückung der Kreuzpolarisation

