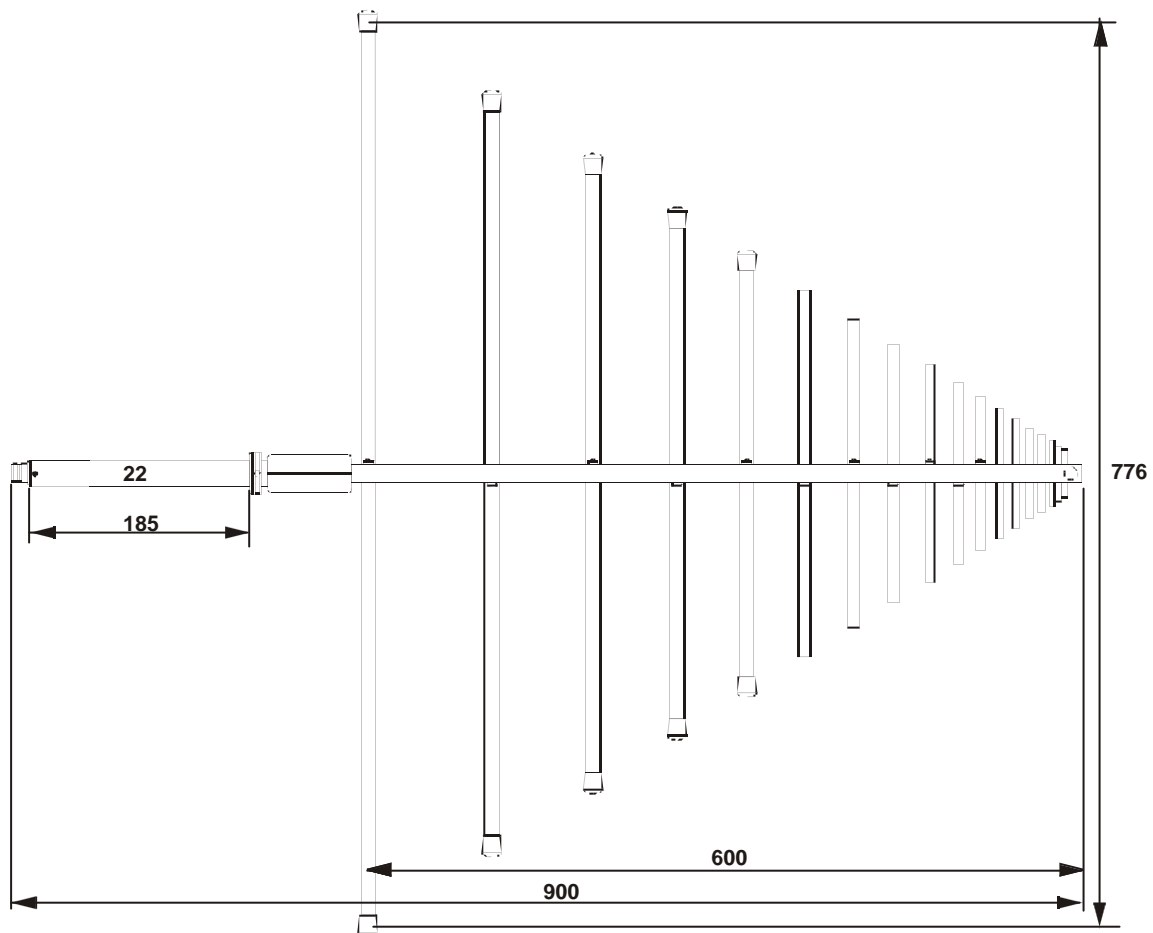


SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne VUSLP 9111B

Log. - Per. Broadband Antenna VUSLP 9111B



Technische Daten:

Bauart:
Linear polarisierte Logarithmisch
Periodische Breitbandantenne in
Aluminiumausführung für Empfangs-
und Sendeanwendungen.

Frequenzbereich, nominell: 200 MHz...3 GHz
Nutzbarer Frequenzbereich: 180 MHz ... 4 GHz
Isotropgewinn: typ. 7 dBi + / - 1 dB
Antennenfaktor: 11 ... 33 dB/m
Impedanz, nominell: 50 Ω
Stehwellenverhältnis SWR max.: < 2.8 (f > 2.3 GHz)
Stehwellenverhältnis SWR typisch: < 1.5
Vor- Rückverhältnis: typ. 20 dB
Polarisationsentkopplung: >20 dB (180 MHz...1.3 GHz)
3 dB Öffnungswinkel typ.(E-Ebene): 45°-65°
3 dB Öffnungswinkel typ.(H-Ebene): 90°-120°
Max. Eingangsleistung: 1000 W (<300 MHz)
300 W (1 GHz)

Anschlußart: N-Buchse
Halterung: 22 mm Rohr, Rastring
Breite x Länge x Dicke:
Gewicht:

VUSLP 9111B

776 x 900 x 82 mm
1.7 kg

Specifications:

Type:
Linear polarized Logarithmic Periodic
Broadband Antenna (Aluminium tubing)
for Receive and Transmit Applications.

Nominal Frequency Range:
Usable Frequency Range:
Isotropic Gain:
Antenna Factor:
Nominal Impedance:
Standing Wave Ratio SWR max.:
Standing Wave Ratio SWR typical:
Front to Back Ratio:
Cross Polarisation:
3 dB Beamwidth typ. (E-Plane):
3 dB Beamwidth typ. (H-Plane):
Max. Input Power:

N-Connector female
Mount: 22 mm Tube, Indexing Ring
Width x Length x Thickness:
Weight:

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Log. - Per. Broadband Antenna VUSLP 9111B

Frequency	Distance	Wave-length	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellen-länge	Dämpfung	Isotrop-gewinn	Gewinn über Dipol	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
180.00	2.60	1.667	19.38	3.23	1.08	12.09
190.00	2.60	1.579	17.42	4.45	2.30	11.35
200.00	2.54	1.500	15.96	5.30	3.15	10.94
210.00	2.49	1.429	15.03	5.88	3.73	10.78
220.00	2.44	1.364	14.54	6.24	4.09	10.82
230.00	2.39	1.304	14.18	6.54	4.39	10.92
240.00	2.35	1.250	14.20	6.64	4.49	11.19
250.00	2.32	1.200	14.55	6.57	4.42	11.61
260.00	2.28	1.154	14.95	6.48	4.32	12.04
270.00	2.25	1.111	15.35	6.38	4.23	12.47
280.00	2.22	1.071	15.82	6.24	4.09	12.92
290.00	2.19	1.034	16.19	6.16	4.01	13.31
300.00	2.17	1.000	16.28	6.21	4.06	13.55
320.00	2.12	0.938	16.48	6.29	4.14	14.03
340.00	2.08	0.882	16.76	6.33	4.18	14.52
360.00	2.04	0.833	16.84	6.46	4.31	14.89
380.00	2.01	0.789	16.80	6.65	4.50	15.17
400.00	1.98	0.750	16.90	6.75	4.60	15.51
420.00	1.95	0.714	17.12	6.80	4.65	15.89
440.00	1.93	0.682	17.10	6.95	4.80	16.14
460.00	1.90	0.652	17.32	6.99	4.83	16.49
480.00	1.88	0.625	17.86	6.85	4.70	16.99
500.00	1.87	0.600	18.03	6.90	4.75	17.30
520.00	1.85	0.577	17.78	7.16	5.01	17.38
540.00	1.83	0.556	17.68	7.33	5.18	17.53
560.00	1.82	0.536	18.10	7.25	5.10	17.94
580.00	1.80	0.517	18.69	7.07	4.92	18.42
600.00	1.79	0.500	19.15	6.96	4.80	18.83
650.00	1.76	0.462	18.89	7.36	5.21	19.11
700.00	1.74	0.429	19.13	7.50	5.35	19.62
750.00	1.72	0.400	19.63	7.50	5.35	20.22
800.00	1.70	0.375	19.77	7.66	5.51	20.62
850.00	1.68	0.353	20.79	7.37	5.22	21.43
900.00	1.67	0.333	20.95	7.50	5.35	21.80
950.00	1.65	0.316	20.84	7.76	5.61	22.02
1000.00	1.64	0.300	21.32	7.71	5.56	22.51
1050.00	1.63	0.286	22.98	7.06	4.91	23.58
1100.00	1.62	0.273	22.57	7.44	5.29	23.61
1150.00	1.61	0.261	22.45	7.67	5.52	23.76
1200.00	1.60	0.250	22.33	7.90	5.74	23.91
1250.00	1.60	0.240	23.28	7.58	5.43	24.58
1300.00	1.59	0.231	23.94	7.40	5.25	25.10
1350.00	1.58	0.222	23.22	7.91	5.76	24.92
1400.00	1.58	0.214	23.46	7.93	5.78	25.22
1450.00	1.57	0.207	23.72	7.93	5.78	25.51
1500.00	1.57	0.200	24.79	7.53	5.38	26.21
1550.00	1.56	0.194	25.23	7.44	5.29	26.59
1600.00	1.56	0.188	24.93	7.72	5.57	26.58

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Log. - Per. Broadband Antenna VUSLP 9111B

Frequency	Distance	Wave-length	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellen-länge	Dämpfung	Isotrop-gewinn	Gewinn über Dipol	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
1650.00	1.55	0.182	24.89	7.86	5.71	26.71
1700.00	1.55	0.176	24.78	8.03	5.88	26.80
1750.00	1.54	0.171	25.46	7.81	5.66	27.27
1800.00	1.54	0.167	26.07	7.61	5.46	27.71
1850.00	1.54	0.162	27.22	7.15	5.00	28.41
1900.00	1.53	0.158	26.53	7.60	5.45	28.20
1950.00	1.53	0.154	26.40	7.77	5.62	28.25
2000.00	1.53	0.150	26.11	8.02	5.87	28.22
2050.00	1.52	0.146	26.12	8.11	5.96	28.35
2100.00	1.52	0.143	26.85	7.84	5.69	28.82
2150.00	1.52	0.140	27.91	7.41	5.26	29.46
2200.00	1.52	0.136	28.90	7.01	4.86	30.06
2250.00	1.52	0.133	29.30	6.90	4.75	30.36
2300.00	1.51	0.130	29.51	6.88	4.73	30.57
2350.00	1.51	0.128	30.18	6.63	4.48	31.01
2400.00	1.51	0.125	30.11	6.75	4.60	31.07
2450.00	1.51	0.122	31.42	6.19	4.03	31.82
2500.00	1.51	0.120	31.00	6.48	4.32	31.70
2550.00	1.50	0.118	32.18	5.96	3.81	32.39
2600.00	1.50	0.115	32.12	6.08	3.93	32.44
2650.00	1.50	0.113	32.42	6.00	3.85	32.68
2700.00	1.50	0.111	32.16	6.21	4.06	32.64
2750.00	1.50	0.109	31.52	6.61	4.46	32.40
2800.00	1.50	0.107	32.02	6.43	4.28	32.73
2850.00	1.49	0.105	31.12	6.95	4.80	32.37
2900.00	1.49	0.103	32.18	6.49	4.34	32.97
2950.00	1.49	0.102	31.97	6.67	4.52	32.95
3000.00	1.49	0.100	33.16	6.15	3.99	33.62
3100.00	1.49	0.097	35.08	5.32	3.17	34.73
3200.00	1.49	0.094	35.94	5.02	2.87	35.30
3300.00	1.48	0.091	35.99	5.12	2.97	35.47
3400.00	1.48	0.088	35.91	5.29	3.14	35.56
3500.00	1.48	0.086	36.64	5.04	2.89	36.06
3600.00	1.48	0.083	37.24	4.86	2.71	36.48
3700.00	1.48	0.081	37.93	4.63	2.48	36.96
3800.00	1.47	0.079	37.27	5.07	2.92	36.75
3900.00	1.47	0.077	35.92	5.85	3.70	36.19
4000.00	1.47	0.075	35.41	6.21	4.06	36.05
4100.00	1.47	0.073	37.01	5.51	3.36	36.96

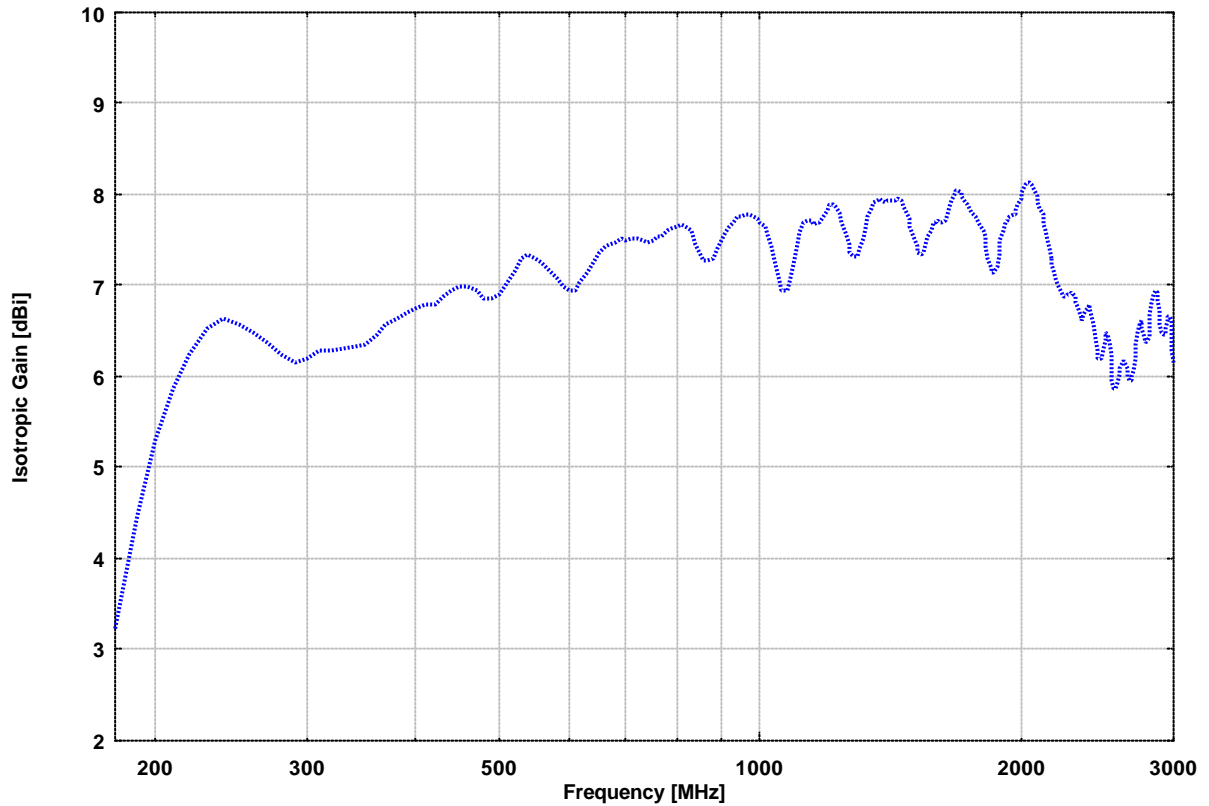
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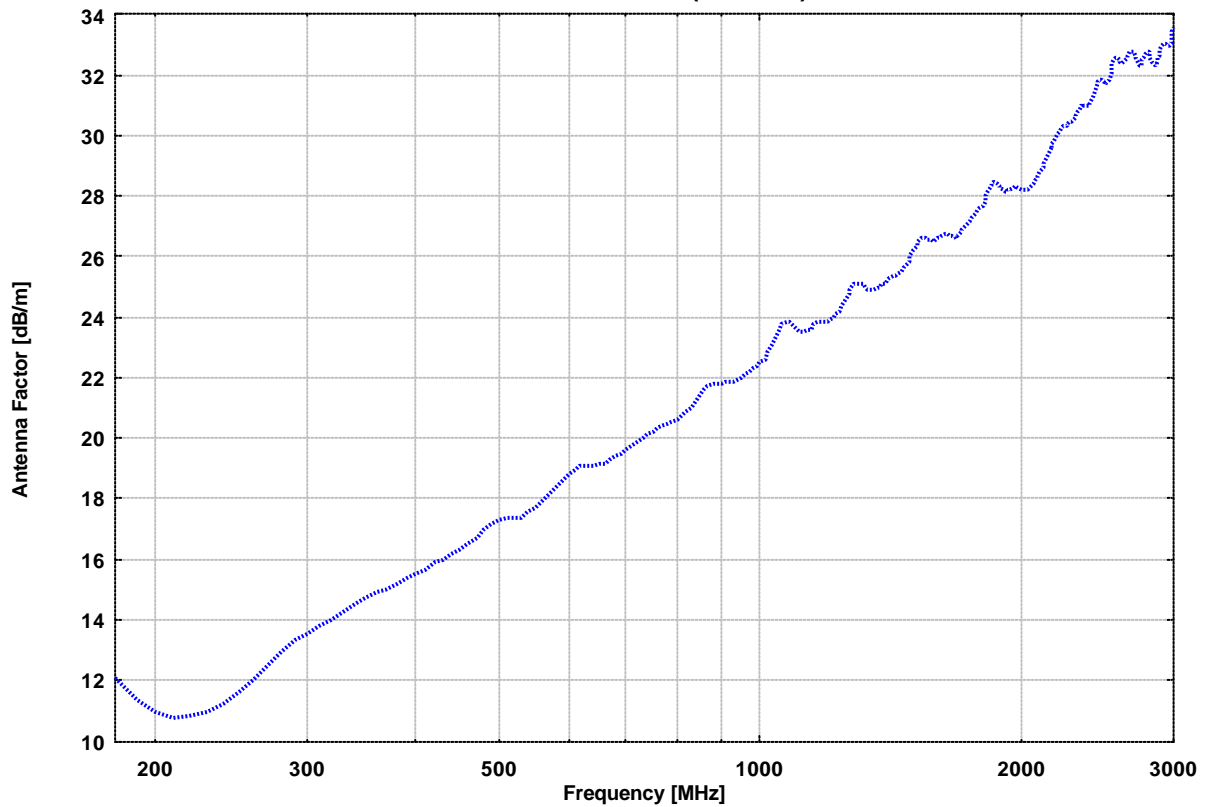
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Log. - Per. Broadband Antenna VUSLP 9111B

Gewinn bezogen auf Isotropstrahler:



Antennenfaktor (k-Faktor):

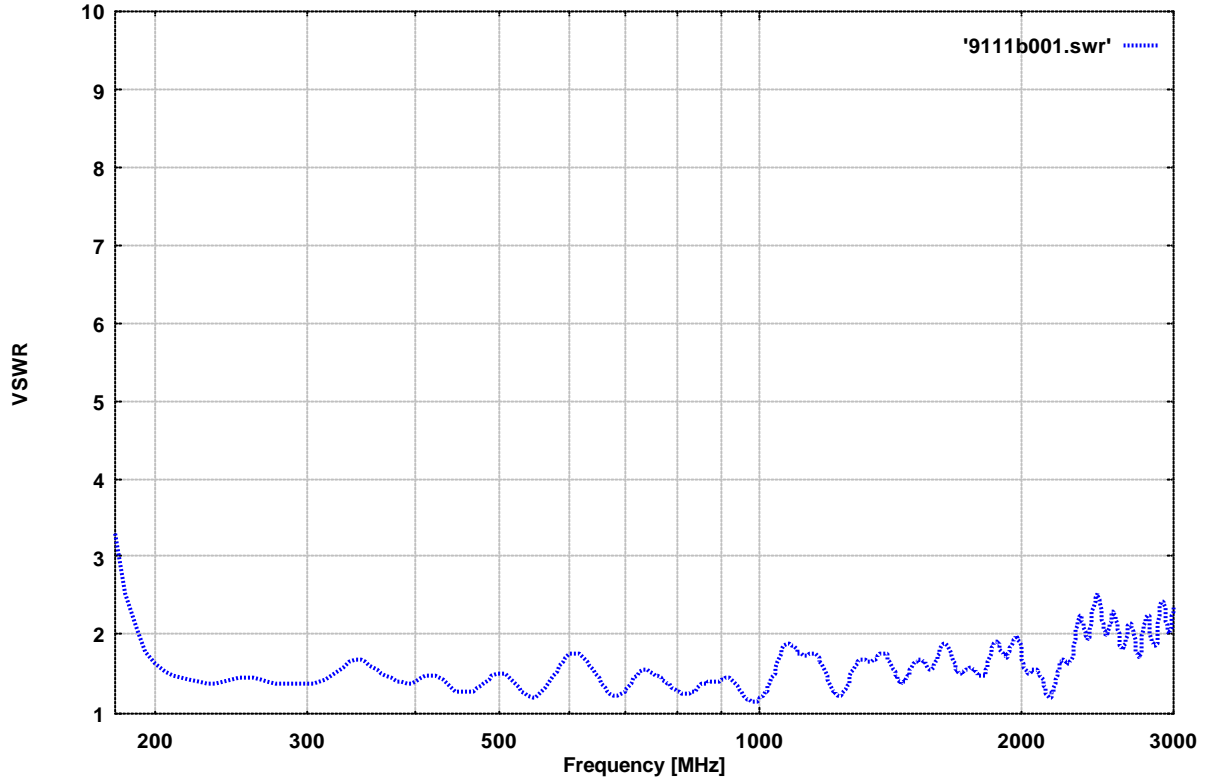


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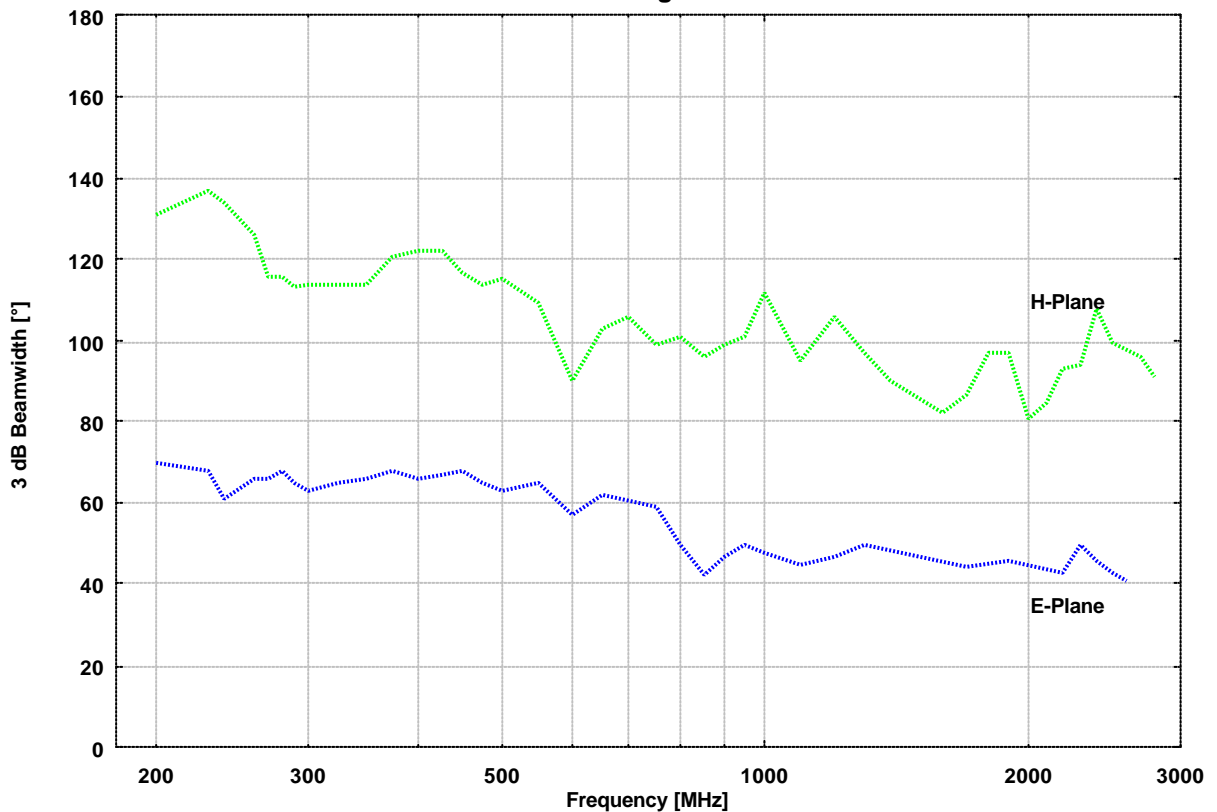
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Log. - Per. Breitband-Antenne VUSLP 9111B Log. - Per. Broadband Antenna VUSLP 9111B

Stehwellenverhältnis (SWR):
VUSLP 9111B



3 dB Öffnungswinkel:



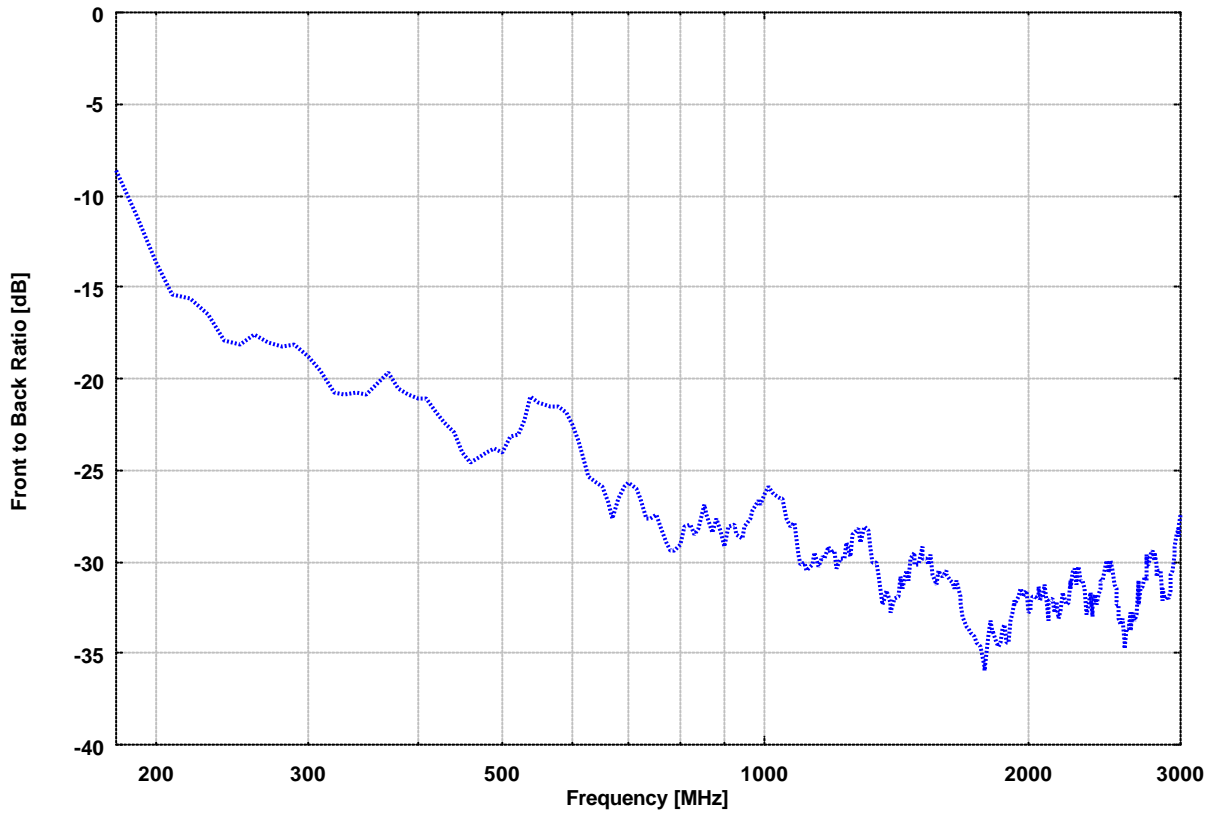
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Log. - Per. Broadband Antenna VUSLP 9111B

Vor- Rückverhältnis:



Kreuzpolarisation, Polarisationsentkopplung:

