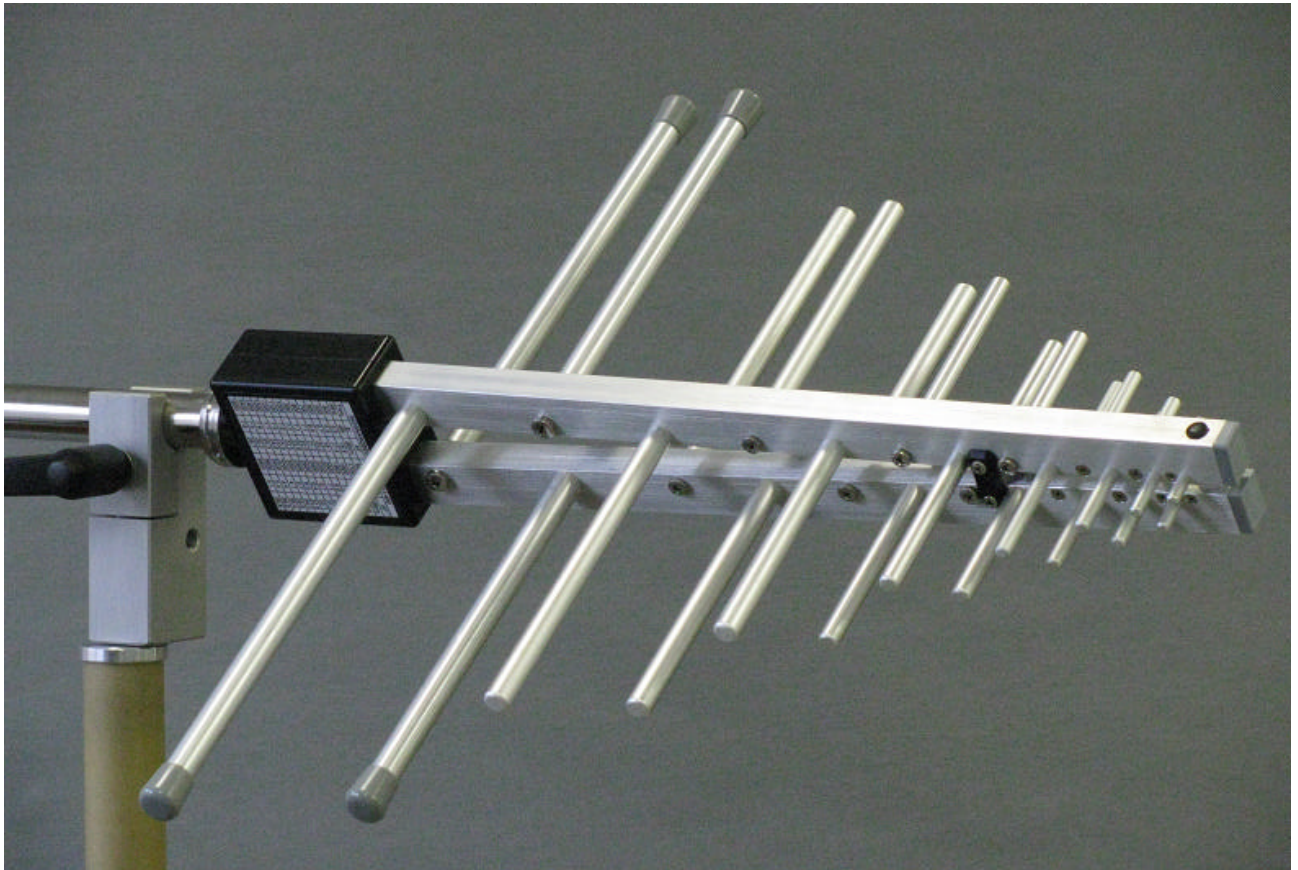


# SCHWARZBECK MESS - ELEKTRONIK

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

**Log. - Per. Breitband-Antenne VUSLP 9111-400**

**Log. - Per. Broadband Antenna VUSLP 9111-400**



## Technische Daten:

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

Frequenzbereich, nominell:	400 MHz...3 GHz
Nutzbarer Frequenzbereich:	340 MHz ... 4 GHz
Isotropgewinn:	typ. 7 dBi + / - 1 dB
Antennenfaktor:	15 ... 34 dB/m
Impedanz, nominell:	50 $\Omega$
Stehwellenverhältnis SWR max.:	< 2.8 (f < 2.3 GHz)
Stehwellenverhältnis SWR typisch:	1.5 (f < 2.3 GHz)
Vor- Rückverhältnis:	typ. 20 dB
Polarisationsentkopplung:	>20 dB (340 MHz...1.3 GHz)
3 dB Öffnungswinkel typ.(E-Ebene):	40°-65°
3 dB Öffnungswinkel typ.(H-Ebene):	80°-120°
Max. Eingangsleistung:	300 W (1 GHz)
Anschlußart: N-Buchse	
Halterung: 22 mm Rohr, Rastring	
Breite x Länge x Dicke:	450 x 635 x 72 mm
Gewicht:	1.3 kg

## VUSLP 9111-400

## Specifications:

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

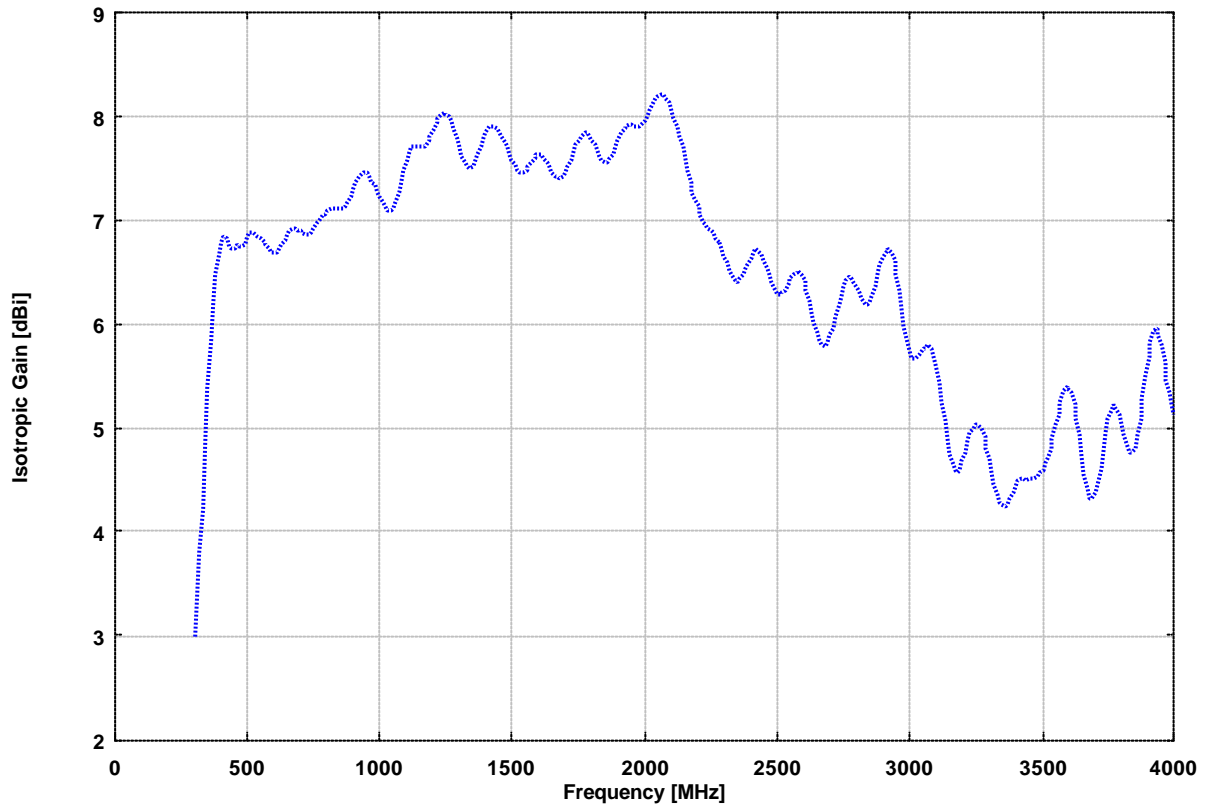
Nominal Frequency Range:	
Usable Frequency Range:	
Isotropic Gain:	
Antenna Factor:	
Nominal Impedance:	
Standing Wave Ratio SWR max.:	
Standing Wave Ratio SWR typical:	
Front to Back Ratio:	
Cross Polarisation:	
3 dB Beamwidth typ. (E-Plane):	
3 dB Beamwidth typ. (H-Plane):	
Max. Input Power:	
N-Connector female	
Mount: 22 mm Tube, Indexing Ring	
Width x Length x Thickness:	
Weight:	

# SCHWARZBECK MESS - ELEKTRONIK

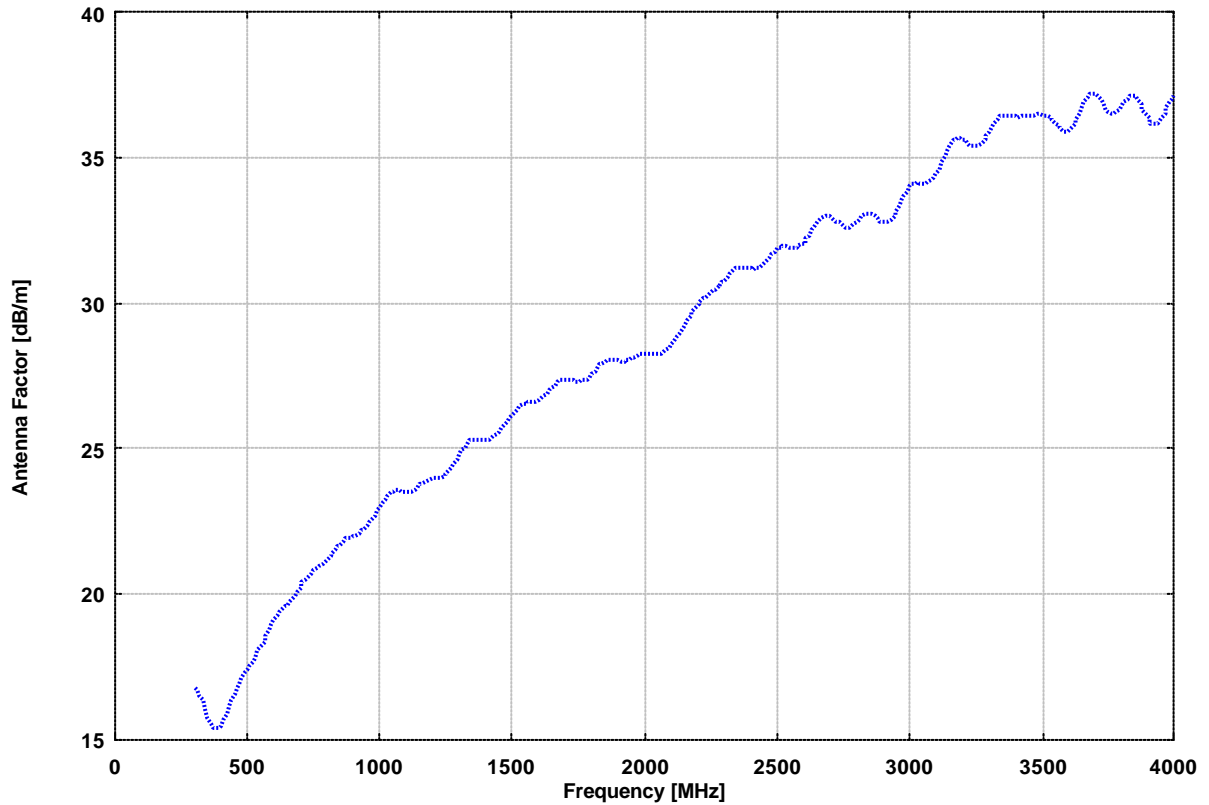
An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

**Log. - Per. Breitband-Antenne VUSLP 9111-400**  
**Log. - Per. Broadband Antenna VUSLP 9111-400**

Gewinn bezogen auf Isotropstrahler:



Antennenfaktor (k-Faktor):



# SCHWARZBECK MESS - ELEKTRONIK

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

## Log. - Per. Breitband-Antenne VUSLP 9111-400 Log. - Per. Broadband Antenna VUSLP 9111-400

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
300.00	2.98	16.78
310.00	3.39	16.66
320.00	3.81	16.52
330.00	4.24	16.35
340.00	4.85	16.00
350.00	5.39	15.71
360.00	5.85	15.50
370.00	6.20	15.39
380.00	6.47	15.35
390.00	6.67	15.38
400.00	6.79	15.47
410.00	6.85	15.63
420.00	6.82	15.87
430.00	6.75	16.14
440.00	6.73	16.36
450.00	6.74	16.54
460.00	6.76	16.71
470.00	6.75	16.91
480.00	6.75	17.10
490.00	6.77	17.25
500.00	6.85	17.35
510.00	6.88	17.49
520.00	6.89	17.65
530.00	6.87	17.83
540.00	6.85	18.02
550.00	6.83	18.20
560.00	6.80	18.38
570.00	6.77	18.57
580.00	6.74	18.75
590.00	6.70	18.94
600.00	6.69	19.09
610.00	6.70	19.22
620.00	6.73	19.34
630.00	6.77	19.44
640.00	6.81	19.53
650.00	6.87	19.61
660.00	6.91	19.70
670.00	6.93	19.81
680.00	6.93	19.94
690.00	6.92	20.07
700.00	6.91	20.22
710.00	6.89	20.36
720.00	6.87	20.50
730.00	6.87	20.62
740.00	6.89	20.72
750.00	6.93	20.79
760.00	6.97	20.86
770.00	7.01	20.94
780.00	7.05	21.01
790.00	7.07	21.10
800.00	7.10	21.18
810.00	7.11	21.28
820.00	7.12	21.38
830.00	7.11	21.49

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
840.00	7.11	21.60
850.00	7.11	21.70
860.00	7.12	21.79
870.00	7.14	21.87
880.00	7.18	21.93
890.00	7.24	21.97
900.00	7.32	21.99
910.00	7.38	22.02
920.00	7.43	22.07
930.00	7.45	22.14
940.00	7.47	22.21
950.00	7.46	22.32
960.00	7.43	22.44
970.00	7.38	22.57
980.00	7.34	22.70
990.00	7.29	22.85
1000.00	7.23	22.99
1010.00	7.18	23.13
1020.00	7.13	23.26
1030.00	7.09	23.39
1040.00	7.09	23.47
1050.00	7.11	23.54
1060.00	7.17	23.56
1070.00	7.26	23.55
1080.00	7.38	23.51
1090.00	7.50	23.47
1100.00	7.59	23.46
1110.00	7.66	23.46
1120.00	7.70	23.51
1130.00	7.71	23.57
1140.00	7.71	23.65
1150.00	7.70	23.73
1160.00	7.70	23.81
1170.00	7.72	23.87
1180.00	7.76	23.89
1190.00	7.82	23.91
1200.00	7.88	23.93
1210.00	7.95	23.93
1220.00	7.99	23.96
1230.00	8.03	23.99
1240.00	8.05	24.04
1250.00	8.03	24.13
1260.00	8.01	24.22
1270.00	7.96	24.34
1280.00	7.89	24.48
1290.00	7.80	24.63
1300.00	7.71	24.79
1310.00	7.62	24.94
1320.00	7.55	25.08
1330.00	7.52	25.18
1340.00	7.51	25.25
1350.00	7.52	25.30
1360.00	7.58	25.31
1370.00	7.64	25.31

# SCHWARZBECK MESS - ELEKTRONIK

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

## Log. - Per. Breitband-Antenne VUSLP 9111-400

## Log. - Per. Broadband Antenna VUSLP 9111-400

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
1380.00	7.72	25.30
1390.00	7.80	25.28
1400.00	7.85	25.29
1410.00	7.90	25.30
1420.00	7.91	25.35
1430.00	7.91	25.42
1440.00	7.89	25.50
1450.00	7.85	25.60
1460.00	7.81	25.70
1470.00	7.75	25.81
1480.00	7.70	25.93
1490.00	7.64	26.04
1500.00	7.59	26.15
1510.00	7.54	26.26
1520.00	7.49	26.37
1530.00	7.47	26.45
1540.00	7.47	26.50
1550.00	7.49	26.54
1560.00	7.53	26.55
1570.00	7.56	26.58
1580.00	7.60	26.59
1590.00	7.64	26.61
1600.00	7.64	26.66
1610.00	7.63	26.73
1620.00	7.60	26.81
1630.00	7.55	26.91
1640.00	7.52	27.00
1650.00	7.47	27.10
1660.00	7.44	27.18
1670.00	7.42	27.26
1680.00	7.41	27.31
1690.00	7.43	27.35
1700.00	7.47	27.36
1710.00	7.52	27.36
1720.00	7.59	27.34
1730.00	7.66	27.32
1740.00	7.73	27.30
1750.00	7.78	27.30
1760.00	7.82	27.31
1770.00	7.84	27.34
1780.00	7.84	27.39
1790.00	7.81	27.46
1800.00	7.77	27.56
1810.00	7.73	27.65
1820.00	7.67	27.75
1830.00	7.62	27.85
1840.00	7.58	27.93
1850.00	7.57	28.00
1860.00	7.57	28.04
1870.00	7.60	28.06
1880.00	7.65	28.06
1890.00	7.71	28.04
1900.00	7.78	28.02
1910.00	7.84	28.00
1920.00	7.89	28.00
1930.00	7.91	28.02

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
1940.00	7.92	28.05
1950.00	7.92	28.10
1960.00	7.91	28.16
1970.00	7.90	28.21
1980.00	7.90	28.25
1990.00	7.92	28.28
2000.00	7.96	28.28
2010.00	8.01	28.27
2020.00	8.07	28.26
2030.00	8.13	28.24
2040.00	8.18	28.24
2050.00	8.20	28.25
2060.00	8.21	28.29
2070.00	8.21	28.33
2080.00	8.18	28.40
2090.00	8.14	28.48
2100.00	8.08	28.58
2110.00	7.99	28.71
2120.00	7.90	28.84
2130.00	7.81	28.97
2140.00	7.71	29.12
2150.00	7.60	29.27
2160.00	7.49	29.42
2170.00	7.38	29.57
2180.00	7.29	29.70
2190.00	7.21	29.82
2200.00	7.13	29.94
2210.00	7.05	30.06
2220.00	6.99	30.16
2230.00	6.96	30.22
2240.00	6.93	30.29
2250.00	6.91	30.35
2260.00	6.88	30.43
2270.00	6.83	30.51
2280.00	6.79	30.59
2290.00	6.73	30.68
2300.00	6.66	30.79
2310.00	6.59	30.90
2320.00	6.52	31.01
2330.00	6.47	31.10
2340.00	6.43	31.17
2350.00	6.42	31.22
2360.00	6.45	31.23
2370.00	6.48	31.24
2380.00	6.53	31.22
2390.00	6.58	31.20
2400.00	6.65	31.18
2410.00	6.70	31.16
2420.00	6.73	31.17
2430.00	6.71	31.22
2440.00	6.68	31.29
2450.00	6.62	31.39
2460.00	6.55	31.49
2470.00	6.47	31.60
2480.00	6.40	31.71
2490.00	6.33	31.81

# SCHWARZBECK MESS - ELEKTRONIK

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

## Log. - Per. Breitband-Antenne VUSLP 9111-400

## Log. - Per. Broadband Antenna VUSLP 9111-400

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
2500.00	6.29	31.89
2510.00	6.29	31.92
2520.00	6.31	31.94
2530.00	6.34	31.94
2540.00	6.39	31.92
2550.00	6.44	31.91
2560.00	6.49	31.90
2570.00	6.51	31.91
2580.00	6.52	31.94
2590.00	6.48	32.01
2600.00	6.43	32.09
2610.00	6.34	32.22
2620.00	6.23	32.35
2630.00	6.12	32.50
2640.00	6.02	32.63
2650.00	5.92	32.76
2660.00	5.85	32.87
2670.00	5.81	32.94
2680.00	5.79	32.99
2690.00	5.82	33.00
2700.00	5.89	32.96
2710.00	5.97	32.90
2720.00	6.08	32.83
2730.00	6.19	32.76
2740.00	6.28	32.70
2750.00	6.36	32.65
2760.00	6.43	32.61
2770.00	6.46	32.61
2780.00	6.45	32.65
2790.00	6.41	32.72
2800.00	6.35	32.81
2810.00	6.30	32.90
2820.00	6.24	32.99
2830.00	6.20	33.06
2840.00	6.18	33.10
2850.00	6.21	33.11
2860.00	6.27	33.08
2870.00	6.36	33.02
2880.00	6.47	32.94
2890.00	6.58	32.85
2900.00	6.66	32.80
2910.00	6.72	32.77
2920.00	6.74	32.79
2930.00	6.69	32.86
2940.00	6.61	32.98
2950.00	6.49	33.13
2960.00	6.33	33.32
2970.00	6.16	33.52
2980.00	5.98	33.72
2990.00	5.84	33.89
3000.00	5.74	34.02
3010.00	5.68	34.11
3020.00	5.67	34.15
3030.00	5.69	34.16
3040.00	5.72	34.15
3050.00	5.77	34.14

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
3060.00	5.78	34.15
3070.00	5.80	34.17
3080.00	5.77	34.22
3090.00	5.70	34.32
3100.00	5.60	34.45
3110.00	5.44	34.63
3120.00	5.26	34.84
3130.00	5.08	35.05
3140.00	4.90	35.25
3150.00	4.75	35.43
3160.00	4.64	35.58
3170.00	4.58	35.66
3180.00	4.57	35.70
3190.00	4.60	35.70
3200.00	4.69	35.63
3210.00	4.77	35.58
3220.00	4.87	35.51
3230.00	4.95	35.46
3240.00	5.00	35.43
3250.00	5.05	35.41
3260.00	5.04	35.44
3270.00	5.00	35.51
3280.00	4.92	35.62
3290.00	4.81	35.75
3300.00	4.70	35.89
3310.00	4.57	36.05
3320.00	4.46	36.19
3330.00	4.36	36.31
3340.00	4.28	36.41
3350.00	4.26	36.46
3360.00	4.25	36.50
3370.00	4.27	36.50
3380.00	4.33	36.47
3390.00	4.37	36.46
3400.00	4.43	36.42
3410.00	4.49	36.39
3420.00	4.51	36.40
3430.00	4.52	36.41
3440.00	4.50	36.45
3450.00	4.51	36.46
3460.00	4.53	36.47
3470.00	4.53	36.50
3480.00	4.54	36.51
3490.00	4.57	36.51
3500.00	4.60	36.50
3510.00	4.66	36.47
3520.00	4.71	36.44
3530.00	4.79	36.38
3540.00	4.91	36.29
3550.00	5.03	36.19
3560.00	5.14	36.11
3570.00	5.25	36.02
3580.00	5.36	35.94
3590.00	5.40	35.93
3600.00	5.39	35.95
3610.00	5.35	36.02

# SCHWARZBECK MESS - ELEKTRONIK

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

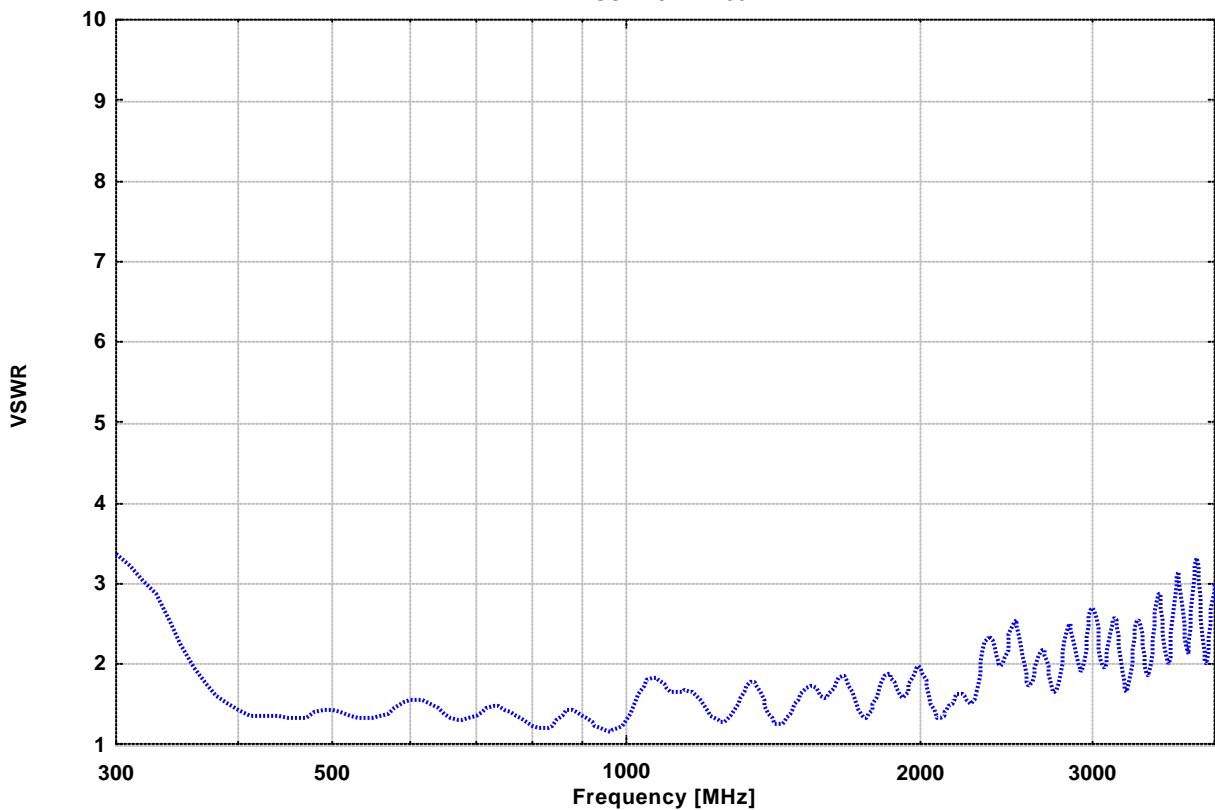
## Log. - Per. Breitband-Antenne VUSLP 9111-400 Log. - Per. Broadband Antenna VUSLP 9111-400

Frequency MHz	Gain(Isotr.) dBi	Ant.-Factor dB/m
3620.00	5.23	36.16
3630.00	5.10	36.32
3640.00	4.93	36.52
3650.00	4.72	36.75
3660.00	4.56	36.93
3670.00	4.42	37.10
3680.00	4.33	37.21
3690.00	4.32	37.24
3700.00	4.37	37.22
3710.00	4.47	37.14
3720.00	4.62	37.01
3730.00	4.78	36.87
3740.00	4.96	36.72
3750.00	5.09	36.61
3760.00	5.18	36.54
3770.00	5.22	36.52
3780.00	5.20	36.57
3790.00	5.14	36.65
3800.00	5.05	36.77
3810.00	4.94	36.90

Frequency MHz	Gain(Isotr.) dBi	Ant.-Factor dB/m
3820.00	4.83	37.03
3830.00	4.76	37.12
3840.00	4.76	37.15
3850.00	4.80	37.12
3860.00	4.94	37.01
3870.00	5.10	36.87
3880.00	5.29	36.71
3890.00	5.51	36.51
3900.00	5.70	36.34
3910.00	5.84	36.22
3920.00	5.94	36.15
3930.00	5.95	36.16
3940.00	5.91	36.22
3950.00	5.80	36.36
3960.00	5.63	36.54
3970.00	5.45	36.75
3980.00	5.34	36.88
3990.00	5.23	37.01
4000.00	5.13	37.13

Gewinn und Antennen-Wandlungsmaß (Fernfelddaten)  
Gain and Antenna Factor Data refers to Farfield

### Stehwellenverhältnis (SWR): VUSLP 9111-400



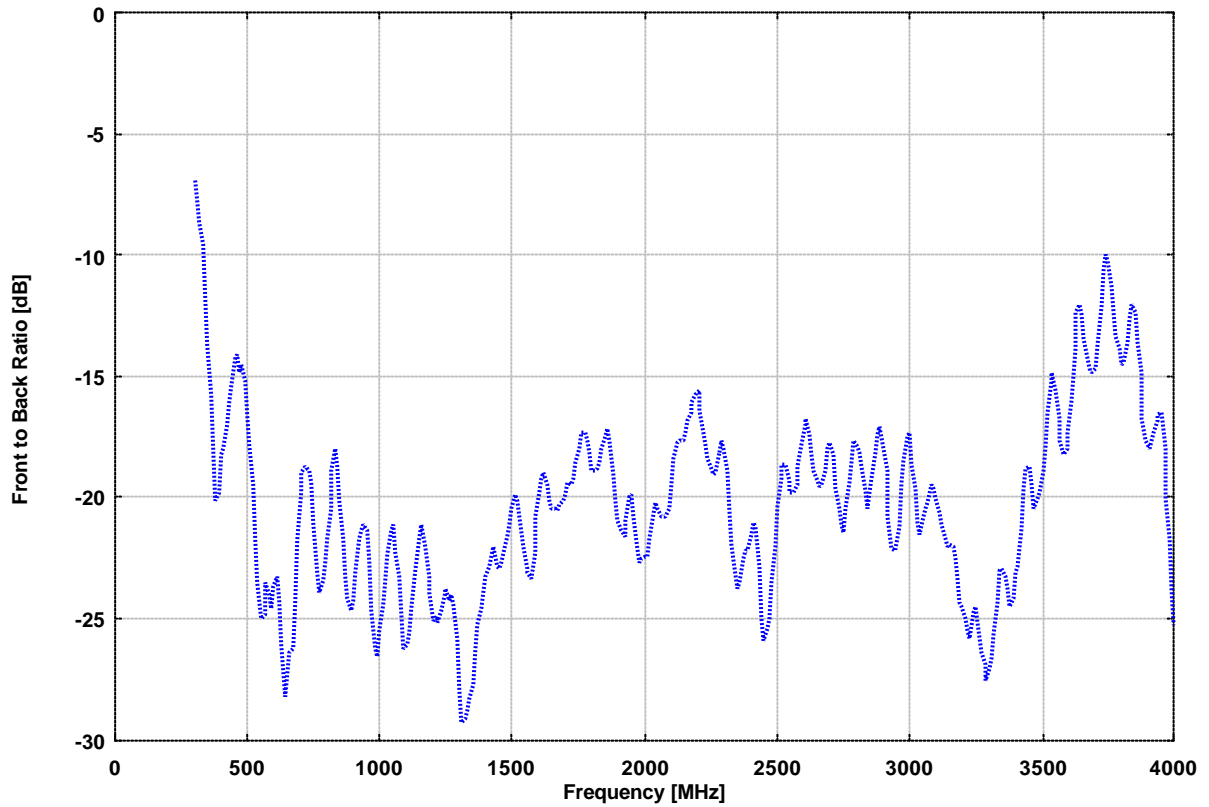
# SCHWARZBECK MESS - ELEKTRONIK

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

**Log. - Per. Breitband-Antenne VUSLP 9111-400**

**Log. - Per. Broadband Antenna VUSLP 9111-400**

Vor- Rückverhältnis:



Unterdrückung der Kreuzpolarisation, Polarisationsentkopplung:

