

# SCHWARZBECK MESS - ELEKTRONIK

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

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

### Correction Data for Short Measuring Distances (Antenna Tip-EuT)

Frequency	Gain (Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
65.0	-0.56	7.04	-1.78	8.26	-4.10	10.58	-8.55	15.03
70.0	2.89	4.23	1.67	5.45	-0.65	7.77	-5.10	12.23
75.0	4.21	3.51	2.99	4.73	0.67	7.05	-3.78	11.50
80.0	5.05	3.23	3.90	4.38	1.69	6.59	-2.61	10.89
85.0	5.34	3.47	4.26	4.55	2.15	6.66	-2.01	10.82
90.0	5.47	3.83	4.44	4.87	2.42	6.88	-1.61	10.92
95.0	5.93	3.84	4.95	4.82	3.03	6.75	-0.88	10.65
100.0	6.29	3.93	5.36	4.86	3.51	6.71	-0.28	10.50
105.0	5.83	4.82	4.94	5.70	3.16	7.48	-0.53	11.18
110.0	5.59	5.46	4.74	6.31	3.03	8.02	-0.56	11.61
115.0	5.91	5.53	5.09	6.34	3.44	7.99	-0.05	11.48
120.0	6.13	5.67	5.35	6.45	3.76	8.04	0.37	11.43
125.0	6.09	6.07	5.34	6.82	3.80	8.36	0.49	11.67
130.0	6.04	6.46	5.32	7.18	3.83	8.67	0.60	11.90
135.0	5.84	6.99	5.14	7.68	3.71	9.12	0.57	12.26
140.0	5.87	7.27	5.20	7.95	3.81	9.34	0.74	12.40
145.0	6.15	7.30	5.50	7.95	4.14	9.30	1.14	12.31
150.0	6.32	7.42	5.69	8.05	4.37	9.37	1.43	12.31
155.0	6.13	7.90	5.52	8.51	4.24	9.79	1.37	12.66
160.0	6.09	8.21	5.50	8.80	4.26	10.05	1.46	12.85
165.0	6.18	8.39	5.60	8.97	4.39	10.18	1.65	12.92
170.0	6.45	8.37	5.89	8.94	4.71	10.12	2.02	12.81
175.0	6.55	8.53	6.01	9.07	4.86	10.22	2.23	12.85
180.0	6.53	8.79	6.00	9.32	4.89	10.44	2.31	13.01
185.0	6.39	9.18	5.88	9.69	4.78	10.78	2.25	13.31
190.0	6.42	9.38	5.92	9.88	4.85	10.95	2.36	13.43
195.0	6.43	9.59	5.94	10.08	4.89	11.13	2.46	13.56
200.0	6.38	9.86	5.90	10.34	4.88	11.36	2.49	13.75
210.0	6.56	10.10	6.11	10.56	5.13	11.53	2.84	13.83
220.0	6.80	10.27	6.36	10.70	5.42	11.64	3.19	13.88
230.0	6.74	10.71	6.32	11.13	5.43	12.03	3.28	14.18
240.0	6.72	11.10	6.32	11.50	5.46	12.37	3.37	14.45
250.0	6.74	11.44	6.36	11.82	5.53	12.65	3.51	14.67
260.0	6.72	11.79	6.35	12.17	5.54	12.98	3.58	14.94
270.0	6.73	12.12	6.38	12.47	5.60	13.24	3.71	15.13
280.0	6.74	12.43	6.40	12.76	5.65	13.51	3.82	15.35
290.0	6.76	12.71	6.43	13.04	5.70	13.77	3.90	15.57
300.0	6.77	12.99	6.45	13.31	5.75	14.02	4.00	15.76
310.0	6.82	13.23	6.51	13.54	5.82	14.22	4.12	15.93
320.0	6.75	13.57	6.45	13.87	5.79	14.53	4.14	16.18
330.0	6.59	14.00	6.30	14.29	5.66	14.93	4.05	16.54
340.0	6.45	14.40	6.17	14.68	5.54	15.31	3.97	16.88
350.0	6.44	14.66	6.17	14.93	5.56	15.54	4.03	17.07
360.0	6.53	14.81	6.26	15.08	5.68	15.67	4.18	17.16
370.0	6.69	14.89	6.43	15.15	5.85	15.74	4.38	17.21
380.0	6.85	14.97	6.60	15.22	6.04	15.78	4.60	17.21
390.0	6.93	15.11	6.68	15.36	6.13	15.91	4.72	17.32
400.0	6.88	15.38	6.64	15.62	6.10	16.16	4.74	17.53
410.0	6.81	15.67	6.57	15.90	6.05	16.43	4.70	17.78

Sales Partner:



ABSOLUTE EMC Lic.  
Covering sales in North America  
United States, Mexico, & Canada

absolute-emc.com  
Phone: 703-774-7505  
info@absolute-emc.com

# SCHWARZBECK MESS - ELEKTRONIK

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

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

Frequency	Gain (Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
Frequenz	Gewinn	Ant. Faktor	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
420.0	6.78	15.90	6.55	16.13	6.04	16.64	4.74	17.95
430.0	6.86	16.03	6.64	16.25	6.14	16.75	4.85	18.04
440.0	6.96	16.13	6.74	16.35	6.25	16.84	4.99	18.10
450.0	7.06	16.22	6.85	16.44	6.36	16.92	5.12	18.16
460.0	7.11	16.36	6.90	16.58	6.43	17.05	5.21	18.27
470.0	7.09	16.58	6.88	16.78	6.42	17.24	5.22	18.44
480.0	6.96	16.88	6.76	17.09	6.30	17.54	5.13	18.72
490.0	6.84	17.18	6.64	17.38	6.20	17.83	5.04	18.98
500.0	6.76	17.44	6.57	17.63	6.13	18.07	5.00	19.20
520.0	6.93	17.61	6.75	17.79	6.33	18.21	5.24	19.30
540.0	7.19	17.68	7.01	17.85	6.62	18.25	5.57	19.30
560.0	7.25	17.93	7.08	18.11	6.69	18.49	5.67	19.52
580.0	6.98	18.50	6.82	18.67	6.45	19.04	5.47	20.02
600.0	6.73	19.05	6.57	19.21	6.21	19.57	5.26	20.53
620.0	6.78	19.29	6.63	19.44	6.27	19.79	5.34	20.73
640.0	7.06	19.29	6.91	19.43	6.57	19.78	5.66	20.68
660.0	7.27	19.34	7.12	19.49	6.79	19.82	5.91	20.70
680.0	7.27	19.60	7.13	19.74	6.80	20.07	5.94	20.93
700.0	7.09	20.03	6.95	20.17	6.64	20.48	5.80	21.32
720.0	6.83	20.54	6.70	20.67	6.39	20.97	5.58	21.79
740.0	6.87	20.74	6.74	20.86	6.45	21.16	5.66	21.95
760.0	7.21	20.63	7.08	20.75	6.80	21.04	6.03	21.80
780.0	7.44	20.63	7.32	20.74	7.04	21.02	6.30	21.76
800.0	7.46	20.82	7.34	20.94	7.06	21.22	6.32	21.96
820.0	7.38	21.12	7.26	21.23	7.00	21.50	6.28	22.22
840.0	7.19	21.51	7.08	21.63	6.82	21.88	6.13	22.58
860.0	7.01	21.90	6.90	22.01	6.64	22.27	5.95	22.96
880.0	6.96	22.15	6.85	22.26	6.61	22.50	5.94	23.17
900.0	7.13	22.17	7.02	22.28	6.78	22.53	6.11	23.20
920.0	7.38	22.12	7.28	22.22	7.04	22.46	6.40	23.10
940.0	7.55	22.14	7.45	22.23	7.22	22.46	6.60	23.08
960.0	7.60	22.27	7.50	22.36	7.27	22.59	6.65	23.21
980.0	7.52	22.53	7.42	22.62	7.21	22.84	6.61	23.43
1000.0	7.36	22.86	7.26	22.96	7.05	23.17	6.45	23.77
1050.0	6.81	23.83	6.72	23.92	6.51	24.13	5.94	24.70
1100.0	7.28	23.77	7.19	23.85	7.00	24.05	6.45	24.60
1150.0	7.60	23.83	7.52	23.92	7.33	24.10	6.81	24.62
1200.0	7.56	24.24	7.48	24.32	7.30	24.50	6.81	24.99
1250.0	7.15	25.01	7.08	25.08	6.91	25.25	6.44	25.72
1300.0	7.29	25.20	7.22	25.28	7.05	25.45	6.58	25.92
1350.0	7.59	25.24	7.52	25.31	7.36	25.47	6.92	25.91
1400.0	7.62	25.52	7.55	25.59	7.39	25.75	6.95	26.19
1450.0	7.52	25.92	7.46	25.99	7.31	26.14	6.89	26.56
1500.0	7.08	26.66	7.02	26.72	6.88	26.86	6.49	27.25
1550.0	6.97	27.06	6.91	27.12	6.77	27.26	6.38	27.64
1600.0	7.21	27.09	7.15	27.15	7.02	27.28	6.66	27.64
1650.0	7.38	27.18	7.32	27.25	7.19	27.38	6.83	27.74
1700.0	7.45	27.37	7.39	27.44	7.26	27.57	6.90	27.93
1750.0	7.31	27.77	7.26	27.82	7.14	27.94	6.80	28.28
1800.0	6.85	28.47	6.80	28.53	6.68	28.65	6.34	28.98
1850.0	6.76	28.80	6.71	28.86	6.59	28.98	6.25	29.31
1900.0	6.92	28.88	6.87	28.92	6.76	29.03	6.45	29.34

# SCHWARZBECK MESS - ELEKTRONIK

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

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

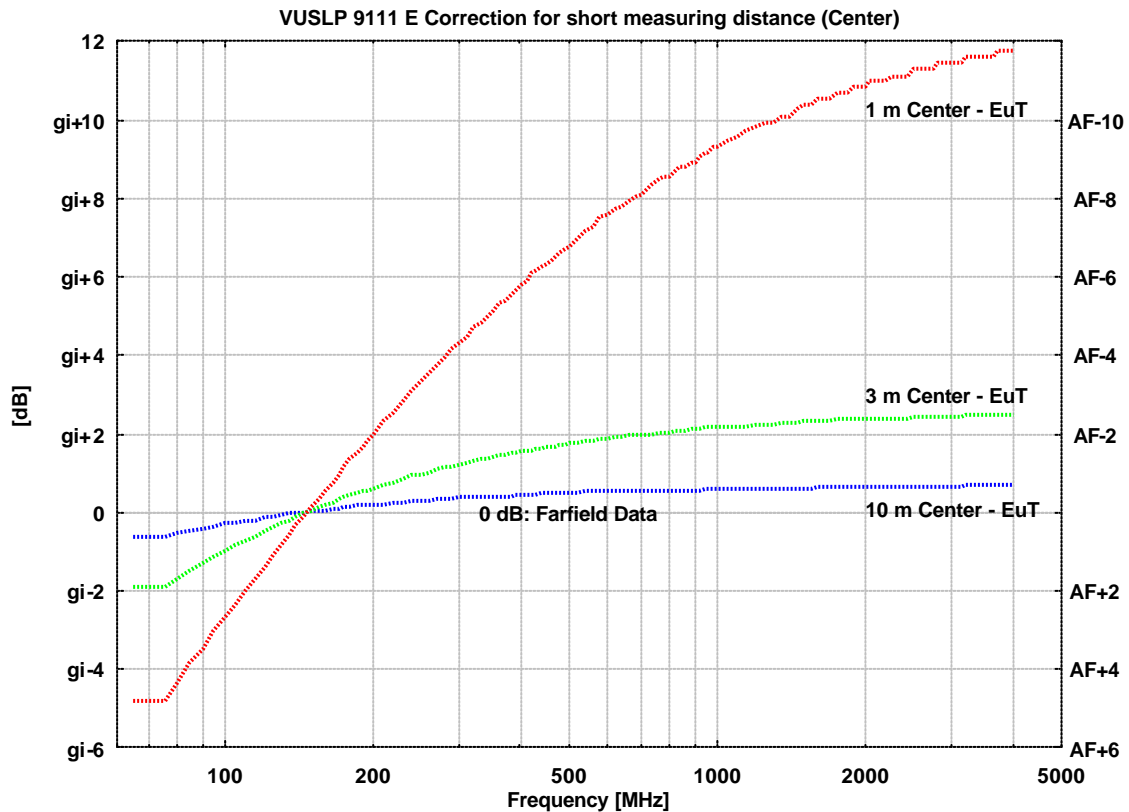
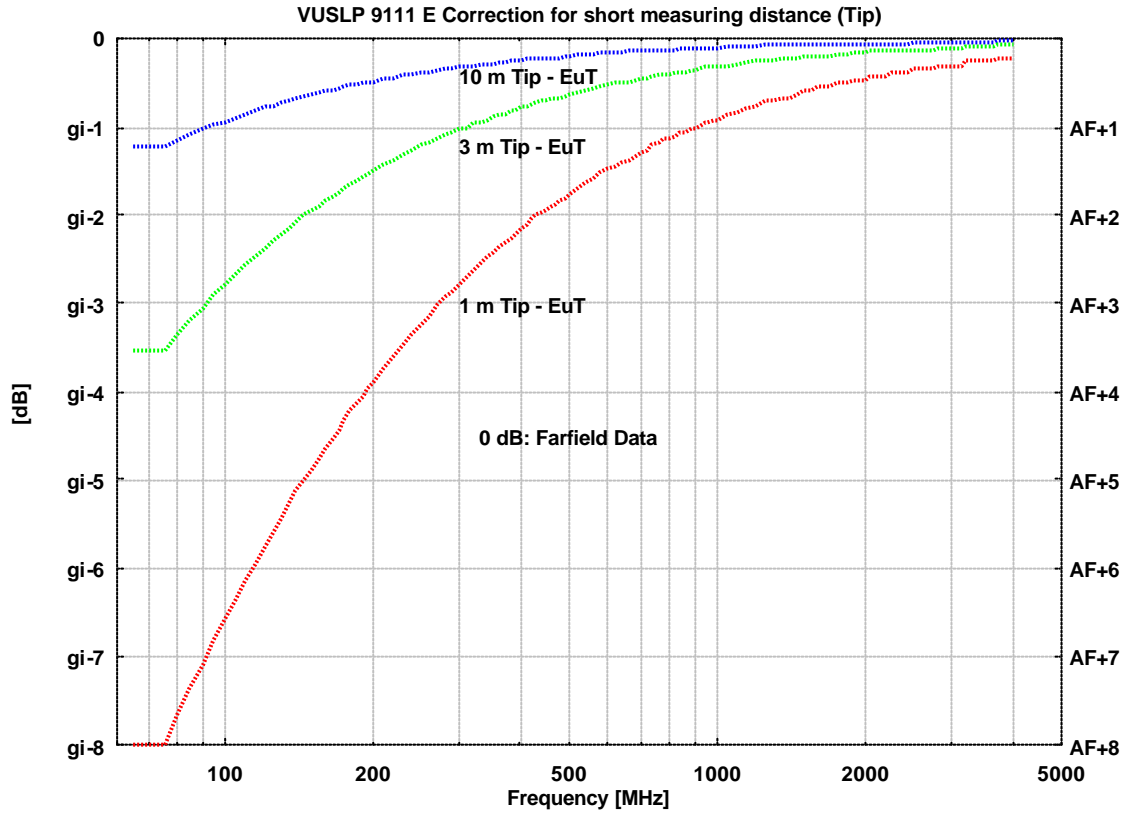
Frequency	Gain (Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
Frequenz	Gewinn	Ant. Faktor	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
1950.0	7.16	28.86	7.11	28.91	7.00	29.02	6.69	29.33
2000.0	7.24	29.00	7.19	29.05	7.08	29.16	6.77	29.47
2050.0	7.30	29.16	7.26	29.20	7.16	29.30	6.88	29.58
2100.0	7.17	29.50	7.13	29.54	7.03	29.64	6.75	29.92
2150.0	6.71	30.16	6.67	30.20	6.57	30.30	6.29	30.58
2200.0	6.31	30.76	6.27	30.80	6.17	30.90	5.89	31.18
2250.0	6.16	31.10	6.12	31.14	6.03	31.23	5.78	31.49
2300.0	6.00	31.45	5.96	31.49	5.87	31.58	5.62	31.84
2350.0	5.94	31.70	5.90	31.74	5.81	31.83	5.56	32.08
2400.0	5.59	32.24	5.55	32.27	5.46	32.36	5.21	32.62
2450.0	5.45	32.55	5.41	32.59	5.32	32.68	5.07	32.94
2500.0	5.41	32.77	5.38	32.80	5.29	32.88	5.07	33.11
2550.0	5.34	33.01	5.31	33.05	5.22	33.13	5.00	33.35
2600.0	4.93	33.59	4.90	33.62	4.81	33.70	4.59	33.93
2650.0	4.87	33.82	4.84	33.85	4.75	33.93	4.53	34.16
2700.0	5.27	33.58	5.24	33.61	5.15	33.69	4.93	33.92
2750.0	5.57	33.43	5.54	33.47	5.45	33.55	5.23	33.78
2800.0	5.68	33.48	5.65	33.51	5.58	33.58	5.38	33.78
2850.0	5.62	33.69	5.59	33.73	5.52	33.80	5.32	34.00
2900.0	5.57	33.90	5.54	33.93	5.47	34.00	5.27	34.20
2950.0	5.53	34.09	5.50	34.12	5.43	34.19	5.23	34.39
3000.0	5.32	34.44	5.29	34.47	5.22	34.54	5.02	34.74
3050.0	4.76	35.14	4.73	35.18	4.66	35.25	4.46	35.44
3100.0	4.29	35.76	4.26	35.79	4.19	35.86	3.99	36.06
3150.0	4.17	36.01	4.14	36.05	4.07	36.12	3.87	36.32
3200.0	4.42	35.90	4.39	35.93	4.33	35.99	4.16	36.16
3250.0	4.35	36.11	4.32	36.13	4.26	36.19	4.09	36.36
3300.0	4.27	36.32	4.24	36.35	4.18	36.41	4.01	36.58
3350.0	4.25	36.48	4.22	36.50	4.16	36.56	3.99	36.73
3400.0	4.29	36.56	4.26	36.59	4.20	36.65	4.03	36.82
3450.0	4.23	36.75	4.20	36.77	4.14	36.83	3.97	37.00
3500.0	3.93	37.17	3.90	37.20	3.84	37.26	3.67	37.43
3550.0	3.98	37.25	3.95	37.27	3.89	37.33	3.72	37.50
3600.0	4.06	37.29	4.03	37.31	3.97	37.37	3.80	37.54
3650.0	4.00	37.47	3.97	37.49	3.91	37.55	3.74	37.72
3700.0	3.89	37.70	3.87	37.72	3.82	37.77	3.68	37.91
3750.0	3.65	38.05	3.63	38.07	3.58	38.12	3.44	38.27
3800.0	3.66	38.15	3.64	38.18	3.59	38.23	3.45	38.37
3850.0	3.94	37.99	3.92	38.01	3.87	38.06	3.73	38.20
3900.0	4.31	37.74	4.29	37.75	4.24	37.80	4.10	37.95
3950.0	4.58	37.57	4.56	37.59	4.51	37.64	4.37	37.79
4000.0	4.35	37.91	4.33	37.93	4.28	37.98	4.14	38.13
<b>Reference Point</b>	<b>Radiation Zone</b>		<b>Tip</b>					

# SCHWARZBECK MESS - ELEKTRONIK

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

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

### Correction Data for Short Measuring Distances



# SCHWARZBECK MESS - ELEKTRONIK

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

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

### Correction Data for Short Measuring Distances (Antenna Center-EuT)

Frequency	Gain (Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
Frequenz	Gewinn	Ant. Faktor	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
65.0	-0.56	7.04	-1.18	7.66	-2.48	8.96	-5.38	11.86
70.0	2.89	4.23	2.27	4.85	0.97	6.15	-1.93	9.06
75.0	4.21	3.51	3.59	4.13	2.29	5.43	-0.61	8.33
80.0	5.05	3.23	4.51	3.78	3.35	4.93	0.71	7.57
85.0	5.34	3.47	4.86	3.94	3.85	4.96	1.46	7.34
90.0	5.47	3.83	5.05	4.25	4.15	5.16	1.99	7.31
95.0	5.93	3.84	5.57	4.20	4.79	4.99	2.87	6.91
100.0	6.29	3.93	5.98	4.24	5.30	4.92	3.60	6.62
105.0	5.83	4.82	5.56	5.08	4.97	5.67	3.47	7.18
110.0	5.59	5.46	5.36	5.68	4.86	6.19	3.57	7.48
115.0	5.91	5.53	5.72	5.71	5.30	6.13	4.20	7.23
120.0	6.13	5.67	5.98	5.82	5.64	6.16	4.75	7.06
125.0	6.09	6.07	5.97	6.19	5.70	6.46	4.97	7.19
130.0	6.04	6.46	5.95	6.55	5.75	6.75	5.19	7.31
135.0	5.84	6.99	5.78	7.05	5.65	7.18	5.27	7.55
140.0	5.87	7.27	5.84	7.31	5.76	7.38	5.55	7.59
145.0	6.15	7.30	6.14	7.31	6.11	7.33	6.04	7.41
150.0	6.32	7.42	6.33	7.41	6.36	7.39	6.43	7.31
155.0	6.13	7.90	6.16	7.86	6.24	7.79	6.46	7.56
160.0	6.09	8.21	6.14	8.16	6.27	8.03	6.65	7.65
165.0	6.18	8.39	6.25	8.32	6.42	8.15	6.93	7.64
170.0	6.45	8.37	6.54	8.29	6.75	8.08	7.39	7.44
175.0	6.55	8.53	6.66	8.42	6.91	8.17	7.69	7.40
180.0	6.53	8.79	6.65	8.67	6.95	8.37	7.87	7.46
185.0	6.39	9.18	6.53	9.04	6.86	8.71	7.88	7.68
190.0	6.42	9.38	6.57	9.22	6.93	8.86	8.06	7.73
195.0	6.43	9.59	6.59	9.43	6.99	9.03	8.23	7.79
200.0	6.38	9.86	6.56	9.68	6.99	9.25	8.35	7.90
210.0	6.56	10.10	6.76	9.90	7.26	9.40	8.86	7.81
220.0	6.80	10.27	7.02	10.05	7.56	9.50	9.33	7.74
230.0	6.74	10.71	6.98	10.47	7.58	9.87	9.56	7.89
240.0	6.72	11.10	6.98	10.84	7.63	10.20	9.79	8.04
250.0	6.74	11.44	7.02	11.16	7.71	10.47	10.06	8.12
260.0	6.72	11.79	7.01	11.51	7.74	10.78	10.23	8.29
270.0	6.73	12.12	7.04	11.81	7.82	11.03	10.51	8.34
280.0	6.74	12.43	7.07	12.10	7.88	11.29	10.72	8.44
290.0	6.76	12.71	7.09	12.37	7.93	11.54	10.88	8.59
300.0	6.77	12.99	7.12	12.64	7.99	11.77	11.10	8.66
310.0	6.82	13.23	7.18	12.87	8.07	11.98	11.29	8.75
320.0	6.75	13.57	7.12	13.20	8.05	12.27	11.44	8.88
330.0	6.59	14.00	6.97	13.62	7.93	12.66	11.43	9.16
340.0	6.45	14.40	6.84	14.01	7.82	13.03	11.45	9.40
350.0	6.44	14.66	6.84	14.26	7.84	13.26	11.59	9.51
360.0	6.53	14.81	6.94	14.41	7.97	13.38	11.84	9.50
370.0	6.69	14.89	7.10	14.48	8.14	13.44	12.08	9.50
380.0	6.85	14.97	7.27	14.55	8.34	13.48	12.41	9.41
390.0	6.93	15.11	7.35	14.69	8.44	13.61	12.57	9.47
400.0	6.88	15.38	7.31	14.95	8.42	13.84	12.69	9.58
410.0	6.81	15.67	7.25	15.23	8.37	14.11	12.70	9.77

# SCHWARZBECK MESS - ELEKTRONIK

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

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

Frequency	Gain (Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
Frequenz	Gewinn	Ant. Faktor	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
420.0	6.78	15.90	7.23	15.46	8.37	14.31	12.84	9.84
430.0	6.86	16.03	7.31	15.58	8.47	14.42	13.01	9.88
440.0	6.96	16.13	7.42	15.67	8.59	14.50	13.20	9.89
450.0	7.06	16.22	7.52	15.76	8.70	14.58	13.39	9.89
460.0	7.11	16.36	7.58	15.90	8.77	14.70	13.53	9.94
470.0	7.09	16.58	7.56	16.10	8.77	14.89	13.60	10.06
480.0	6.96	16.88	7.44	16.41	8.66	15.19	13.56	10.28
490.0	6.84	17.18	7.32	16.70	8.55	15.47	13.54	10.49
500.0	6.76	17.44	7.24	16.95	8.49	15.71	13.55	10.65
520.0	6.93	17.61	7.42	17.12	8.70	15.84	13.91	10.63
540.0	7.19	17.68	7.69	17.18	8.99	15.87	14.37	10.50
560.0	7.25	17.93	7.76	17.43	9.07	16.11	14.53	10.65
580.0	6.98	18.50	7.50	17.99	8.84	16.65	14.46	11.03
600.0	6.73	19.05	7.25	18.53	8.61	17.18	14.32	11.47
620.0	6.78	19.29	7.31	18.76	8.67	17.39	14.47	11.60
640.0	7.06	19.29	7.59	18.75	8.97	17.37	14.86	11.49
660.0	7.27	19.34	7.81	18.81	9.20	17.41	15.17	11.44
680.0	7.27	19.60	7.81	19.06	9.22	17.65	15.28	11.59
700.0	7.09	20.03	7.63	19.49	9.06	18.07	15.21	11.91
720.0	6.83	20.54	7.38	19.99	8.81	18.55	15.06	12.30
740.0	6.87	20.74	7.42	20.18	8.87	18.73	15.22	12.39
760.0	7.21	20.63	7.77	20.07	9.23	18.61	15.67	12.16
780.0	7.44	20.63	8.00	20.06	9.48	18.58	16.02	12.04
800.0	7.46	20.82	8.02	20.26	9.50	18.78	16.04	12.24
820.0	7.38	21.12	7.95	20.55	9.44	19.06	16.07	12.42
840.0	7.19	21.51	7.76	20.94	9.26	19.44	16.00	12.70
860.0	7.01	21.90	7.58	21.33	9.08	19.82	15.82	13.09
880.0	6.96	22.15	7.54	21.57	9.05	20.06	15.89	13.22
900.0	7.13	22.17	7.71	21.60	9.22	20.08	16.06	13.24
920.0	7.38	22.12	7.96	21.53	9.49	20.00	16.44	13.06
940.0	7.55	22.14	8.14	21.55	9.68	20.00	16.73	12.95
960.0	7.60	22.27	8.19	21.68	9.73	20.14	16.78	13.08
980.0	7.52	22.53	8.11	21.93	9.67	20.38	16.83	13.22
1000.0	7.36	22.86	7.95	22.27	9.51	20.71	16.67	13.55
1050.0	6.81	23.83	7.41	23.24	8.98	21.67	16.24	14.40
1100.0	7.28	23.77	7.88	23.17	9.47	21.58	16.84	14.20
1150.0	7.60	23.83	8.20	23.23	9.80	21.63	17.30	14.14
1200.0	7.56	24.24	8.17	23.63	9.78	22.02	17.39	14.41
1250.0	7.15	25.01	7.76	24.39	9.39	22.77	17.12	15.04
1300.0	7.29	25.20	7.90	24.59	9.53	22.97	17.26	15.24
1350.0	7.59	25.24	8.21	24.62	9.85	22.98	17.69	15.13
1400.0	7.62	25.52	8.24	24.90	9.88	23.26	17.72	15.42
1450.0	7.52	25.92	8.14	25.30	9.80	23.65	17.76	15.68
1500.0	7.08	26.66	7.71	26.03	9.38	24.36	17.47	16.28
1550.0	6.97	27.06	7.60	26.43	9.27	24.76	17.36	16.67
1600.0	7.21	27.09	7.84	26.46	9.53	24.78	17.74	16.56
1650.0	7.38	27.18	8.01	26.56	9.70	24.87	17.91	16.66
1700.0	7.45	27.37	8.08	26.75	9.77	25.06	17.98	16.85
1750.0	7.31	27.77	7.95	27.13	9.65	25.43	17.99	17.09
1800.0	6.85	28.47	7.49	27.84	9.19	26.14	17.53	17.80
1850.0	6.76	28.80	7.40	28.17	9.10	26.47	17.44	18.13
1900.0	6.92	28.88	7.56	28.23	9.28	26.52	17.75	18.05



**ABSOLUTE EMC** LLC.  
Covering sales in North America  
United States, Mexico, & Canada

absolute-emc.com  
Phone: 703-774-7505  
info@absolute-emc.com

# SCHWARZBECK MESS - ELEKTRONIK

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

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

Frequency	Gain (Iso.)	Ant.-Fact k	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
Frequenz	Gewinn	Ant. Faktor	gi (10 m)	k (10m)	gi (3m)	k (3m)	gi (1m)	k (1m)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
1950.0	7.16	28.86	7.80	28.22	9.52	26.51	17.99	18.03
2000.0	7.24	29.00	7.88	28.36	9.60	26.65	18.07	18.17
2050.0	7.30	29.16	7.95	28.51	9.67	26.78	18.28	18.18
2100.0	7.17	29.50	7.82	28.85	9.54	27.12	18.15	18.51
2150.0	6.71	30.16	7.36	29.51	9.08	27.78	17.69	19.18
2200.0	6.31	30.76	6.96	30.11	8.68	28.38	17.29	19.78
2250.0	6.16	31.10	6.81	30.45	8.55	28.71	17.29	19.97
2300.0	6.00	31.45	6.65	30.80	8.39	29.06	17.13	20.32
2350.0	5.94	31.70	6.59	31.05	8.33	29.31	17.07	20.57
2400.0	5.59	32.24	6.24	31.58	7.98	29.84	16.72	21.10
2450.0	5.45	32.55	6.10	31.90	7.84	30.16	16.58	21.42
2500.0	5.41	32.77	6.07	32.11	7.82	30.36	16.70	21.48
2550.0	5.34	33.01	6.00	32.35	7.75	30.60	16.63	21.72
2600.0	4.93	33.59	5.59	32.93	7.34	31.18	16.22	22.30
2650.0	4.87	33.82	5.53	33.16	7.28	31.40	16.16	22.52
2700.0	5.27	33.58	5.93	32.92	7.68	31.16	16.56	22.28
2750.0	5.57	33.43	6.23	32.78	7.98	31.02	16.86	22.14
2800.0	5.68	33.48	6.34	32.82	8.11	31.05	17.13	22.03
2850.0	5.62	33.69	6.28	33.04	8.05	31.27	17.07	22.24
2900.0	5.57	33.90	6.23	33.24	8.00	31.47	17.02	22.44
2950.0	5.53	34.09	6.19	33.43	7.96	31.65	16.98	22.63
3000.0	5.32	34.44	5.98	33.78	7.75	32.01	16.77	22.99
3050.0	4.76	35.14	5.42	34.49	7.19	32.71	16.21	23.69
3100.0	4.29	35.76	4.95	35.10	6.72	33.33	15.74	24.30
3150.0	4.17	36.01	4.83	35.36	6.60	33.58	15.62	24.56
3200.0	4.42	35.90	5.09	35.24	6.87	33.45	16.04	24.29
3250.0	4.35	36.11	5.02	35.44	6.80	33.66	15.97	24.49
3300.0	4.27	36.32	4.94	35.65	6.72	33.87	15.89	24.70
3350.0	4.25	36.48	4.92	35.81	6.70	34.02	15.87	24.85
3400.0	4.29	36.56	4.96	35.89	6.74	34.11	15.91	24.94
3450.0	4.23	36.75	4.90	36.08	6.68	34.30	15.85	25.13
3500.0	3.93	37.17	4.60	36.51	6.38	34.72	15.55	25.55
3550.0	3.98	37.25	4.65	36.58	6.43	34.79	15.60	25.63
3600.0	4.06	37.29	4.73	36.62	6.51	34.84	15.68	25.67
3650.0	4.00	37.47	4.67	36.80	6.45	35.02	15.62	25.85
3700.0	3.89	37.70	4.56	37.02	6.36	35.22	15.67	25.91
3750.0	3.65	38.05	4.32	37.38	6.12	35.58	15.43	26.27
3800.0	3.66	38.15	4.33	37.49	6.13	35.69	15.44	26.37
3850.0	3.94	37.99	4.61	37.32	6.41	35.52	15.72	26.20
3900.0	4.31	37.74	4.98	37.06	6.78	35.26	16.09	25.95
3950.0	4.58	37.57	5.25	36.90	7.05	35.10	16.36	25.79
4000.0	4.35	37.91	5.02	37.24	6.82	35.44	16.13	26.13
<b>Reference Point</b>	<b>Radiation Zone</b>		<b>Center</b>					