

# SCHWARZBECK MESS - ELEKTRONIK

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

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

### 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
180.0	3.23	12.09	2.72	12.60	1.65	13.68	-0.85	16.18
190.0	4.45	11.35	3.94	11.85	2.87	12.93	0.37	15.43
200.0	5.30	10.94	4.82	11.42	3.79	12.45	1.38	14.86
210.0	5.88	10.78	5.42	11.25	4.43	12.23	2.10	14.56
220.0	6.24	10.82	5.80	11.27	4.85	12.22	2.60	14.47
230.0	6.54	10.92	6.12	11.33	5.21	12.24	3.05	14.41
240.0	6.64	11.19	6.24	11.59	5.36	12.46	3.26	14.56
250.0	6.57	11.61	6.18	12.00	5.33	12.85	3.28	14.90
260.0	6.48	12.04	6.11	12.41	5.29	13.23	3.31	15.21
270.0	6.38	12.47	6.02	12.83	5.23	13.62	3.30	15.54
280.0	6.24	12.92	5.89	13.27	5.13	14.04	3.26	15.91
290.0	6.16	13.31	5.82	13.64	5.09	14.38	3.27	16.20
300.0	6.21	13.55	5.88	13.88	5.16	14.60	3.38	16.38
320.0	6.29	14.03	5.98	14.34	5.31	15.02	3.62	16.70
340.0	6.33	14.52	6.04	14.81	5.40	15.45	3.79	17.06
360.0	6.46	14.89	6.19	15.16	5.58	15.77	4.05	17.30
380.0	6.65	15.17	6.39	15.43	5.81	16.01	4.34	17.48
400.0	6.75	15.51	6.50	15.76	5.95	16.31	4.54	17.72
420.0	6.80	15.89	6.56	16.12	6.04	16.65	4.69	18.00
440.0	6.95	16.14	6.72	16.37	6.21	16.87	4.91	18.18
460.0	6.99	16.49	6.78	16.70	6.29	17.18	5.05	18.42
480.0	6.85	16.99	6.64	17.20	6.18	17.66	4.98	18.86
500.0	6.90	17.30	6.70	17.50	6.24	17.95	5.07	19.13
520.0	7.16	17.38	6.97	17.57	6.53	18.01	5.40	19.14
540.0	7.33	17.53	7.15	17.72	6.73	18.14	5.64	19.23
560.0	7.25	17.94	7.07	18.11	6.66	18.52	5.59	19.59
580.0	7.07	18.42	6.90	18.59	6.51	18.98	5.49	20.00
600.0	6.96	18.83	6.79	18.99	6.41	19.37	5.41	20.37
650.0	7.36	19.11	7.21	19.27	6.85	19.62	5.92	20.56
700.0	7.50	19.62	7.35	19.77	7.02	20.10	6.14	20.99
750.0	7.50	20.22	7.36	20.36	7.05	20.67	6.21	21.51
800.0	7.66	20.62	7.53	20.75	7.24	21.05	6.45	21.84
850.0	7.37	21.43	7.25	21.56	6.97	21.83	6.23	22.58
900.0	7.50	21.80	7.38	21.92	7.12	22.19	6.40	22.90
950.0	7.76	22.02	7.65	22.12	7.41	22.37	6.74	23.04
1000.0	7.71	22.51	7.61	22.61	7.37	22.85	6.73	23.49
1050.0	7.06	23.58	6.96	23.68	6.73	23.91	6.11	24.53
1100.0	7.44	23.61	7.34	23.70	7.13	23.92	6.53	24.51
1150.0	7.67	23.76	7.58	23.85	7.37	24.06	6.80	24.63
1200.0	7.90	23.91	7.81	23.99	7.62	24.19	7.07	24.73
1250.0	7.58	24.58	7.49	24.66	7.30	24.86	6.75	25.41
1300.0	7.40	25.10	7.32	25.18	7.13	25.37	6.61	25.89
1350.0	7.91	24.92	7.83	24.99	7.65	25.17	7.16	25.67
<b>Reference Point</b>	<b>Radiation Zone</b>		<b>Tip</b>					



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### 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
1400.0	7.93	25.22	7.85	25.29	7.67	25.47	7.18	25.96
1450.0	7.93	25.51	7.86	25.59	7.69	25.76	7.22	26.23
1500.0	7.53	26.21	7.46	26.29	7.29	26.45	6.82	26.92
1550.0	7.44	26.59	7.37	26.66	7.21	26.82	6.77	27.26
1600.0	7.72	26.58	7.65	26.65	7.49	26.81	7.05	27.25
1650.0	7.86	26.71	7.80	26.77	7.65	26.92	7.23	27.34
1700.0	8.03	26.80	7.97	26.86	7.82	27.01	7.40	27.43
1750.0	7.81	27.27	7.75	27.33	7.61	27.47	7.22	27.86
1800.0	7.61	27.71	7.55	27.78	7.41	27.92	7.02	28.30
1850.0	7.15	28.41	7.09	28.47	6.95	28.61	6.56	29.00
1900.0	7.60	28.20	7.54	28.25	7.41	28.38	7.05	28.74
1950.0	7.77	28.25	7.71	28.31	7.58	28.44	7.22	28.80
2000.0	8.02	28.22	7.96	28.28	7.83	28.41	7.47	28.77
2050.0	8.11	28.35	8.06	28.40	7.94	28.52	7.60	28.85
2100.0	7.84	28.82	7.79	28.88	7.67	29.00	7.33	29.33
2150.0	7.41	29.46	7.36	29.51	7.24	29.63	6.90	29.96
2200.0	7.01	30.06	6.96	30.11	6.84	30.23	6.50	30.56
2250.0	6.90	30.36	6.85	30.42	6.73	30.54	6.39	30.87
2300.0	6.88	30.57	6.83	30.62	6.72	30.73	6.41	31.04
2350.0	6.63	31.01	6.58	31.06	6.47	31.17	6.16	31.48
2400.0	6.75	31.07	6.70	31.12	6.59	31.23	6.28	31.54
2450.0	6.19	31.82	6.14	31.86	6.03	31.97	5.72	32.28
2500.0	6.48	31.70	6.43	31.75	6.32	31.86	6.01	32.16
2550.0	5.96	32.39	5.92	32.43	5.82	32.53	5.54	32.81
2600.0	6.08	32.44	6.04	32.48	5.94	32.58	5.66	32.86
2650.0	6.00	32.68	5.96	32.73	5.86	32.83	5.58	33.11
2700.0	6.21	32.64	6.17	32.68	6.07	32.78	5.79	33.06
2750.0	6.61	32.40	6.57	32.44	6.47	32.54	6.19	32.82
2800.0	6.43	32.73	6.39	32.78	6.29	32.88	6.01	33.16
2850.0	6.95	32.37	6.91	32.41	6.82	32.50	6.57	32.75
2900.0	6.49	32.97	6.45	33.02	6.36	33.11	6.11	33.36
2950.0	6.67	32.95	6.63	32.99	6.54	33.08	6.29	33.33
3000.0	6.15	33.62	6.11	33.65	6.02	33.74	5.77	33.99
3100.0	5.32	34.73	5.28	34.77	5.19	34.86	4.94	35.11
3200.0	5.02	35.30	4.98	35.34	4.89	35.43	4.64	35.69
3300.0	5.12	35.47	5.09	35.50	5.00	35.59	4.78	35.81
3400.0	5.29	35.56	5.26	35.59	5.17	35.67	4.95	35.90
3500.0	5.04	36.06	5.01	36.10	4.92	36.18	4.70	36.40
3600.0	4.86	36.48	4.83	36.52	4.74	36.60	4.52	36.83
3700.0	4.63	36.96	4.60	36.99	4.51	37.07	4.29	37.29
3800.0	5.07	36.75	5.04	36.78	4.97	36.85	4.77	37.04
3900.0	5.85	36.19	5.82	36.22	5.75	36.29	5.55	36.49
4000.0	6.21	36.05	6.18	36.08	6.11	36.15	5.91	36.35
4100.0	5.51	36.96	5.48	37.00	5.41	37.07	5.21	37.26
<b>Reference Point</b>	<b>Radiation Zone</b>		<b>Tip</b>					

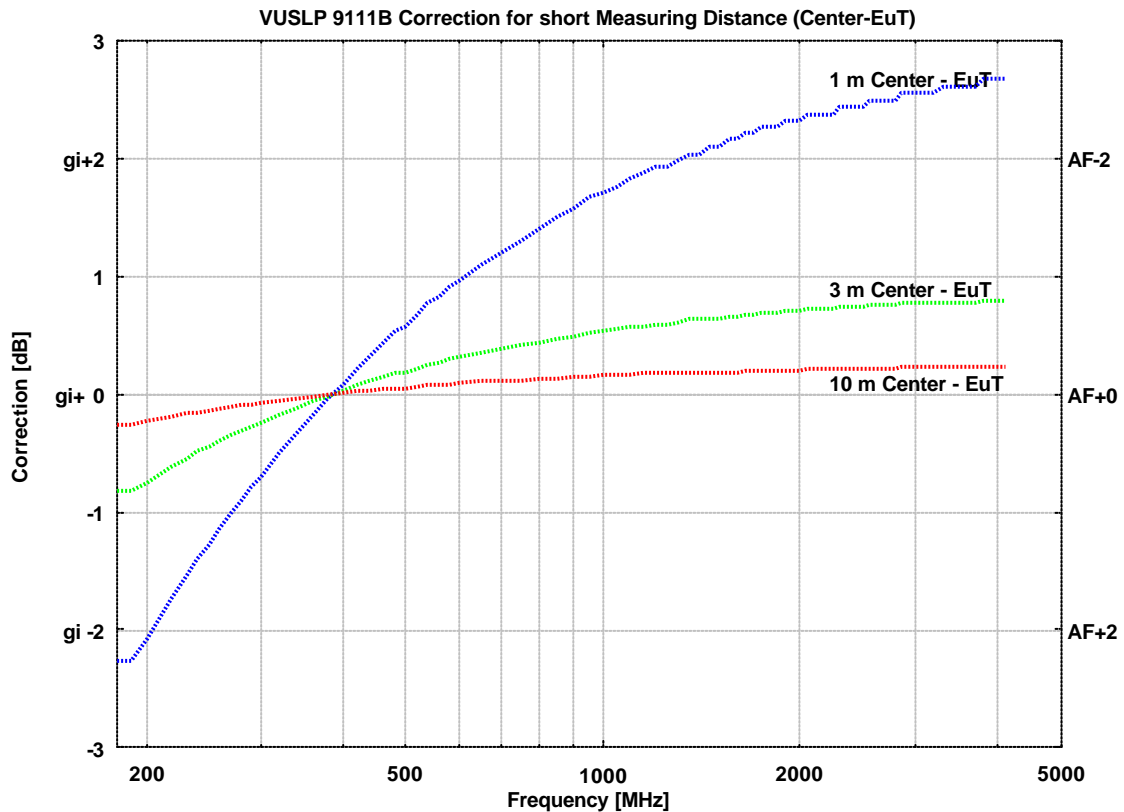
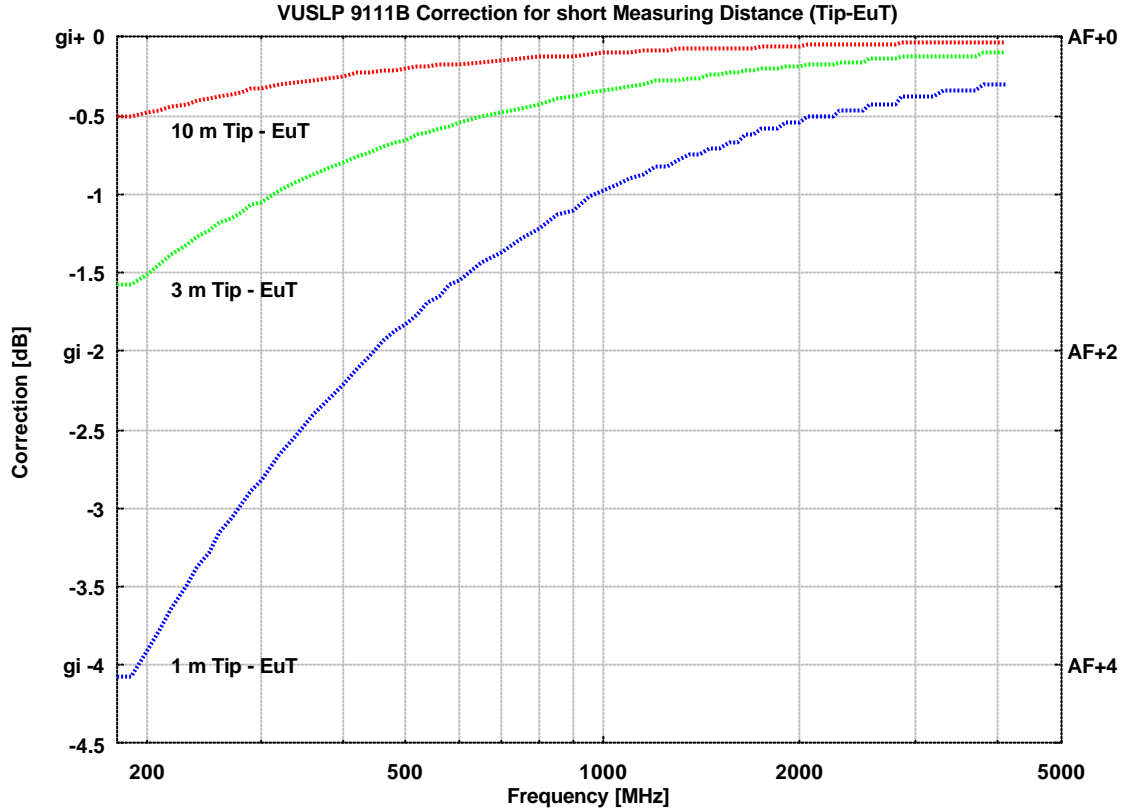


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## Log. - Per. Broadband Antenna VUSLP 9111B

### Correction Data for Short Measuring Distances



Sales Partner:



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

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

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### 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)
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
180.0	3.23	12.09	2.97	12.35	2.40	12.92	0.95	14.37
190.0	4.45	11.35	4.19	11.60	3.62	12.17	2.17	13.62
200.0	5.30	10.94	5.07	11.17	4.55	11.69	3.22	13.02
210.0	5.88	10.78	5.67	10.99	5.20	11.47	3.98	12.69
220.0	6.24	10.82	6.05	11.02	5.63	11.44	4.51	12.56
230.0	6.54	10.92	6.37	11.08	5.99	11.46	4.99	12.46
240.0	6.64	11.19	6.49	11.33	6.15	11.68	5.24	12.58
250.0	6.57	11.61	6.43	11.75	6.12	12.06	5.28	12.90
260.0	6.48	12.04	6.36	12.16	6.08	12.44	5.34	13.18
270.0	6.38	12.47	6.27	12.58	6.03	12.82	5.36	13.49
280.0	6.24	12.92	6.14	13.02	5.93	13.24	5.33	13.83
290.0	6.16	13.31	6.08	13.39	5.89	13.58	5.37	14.10
300.0	6.21	13.55	6.14	13.63	5.97	13.80	5.50	14.26
320.0	6.29	14.03	6.24	14.08	6.12	14.21	5.78	14.54
340.0	6.33	14.52	6.30	14.55	6.21	14.63	5.99	14.86
360.0	6.46	14.89	6.44	14.90	6.40	14.94	6.29	15.06
380.0	6.65	15.17	6.65	15.17	6.64	15.18	6.61	15.21
400.0	6.75	15.51	6.76	15.50	6.78	15.48	6.84	15.42
420.0	6.80	15.89	6.82	15.86	6.87	15.81	7.02	15.67
440.0	6.95	16.14	6.98	16.11	7.05	16.04	7.26	15.83
460.0	6.99	16.49	7.03	16.44	7.14	16.34	7.44	16.04
480.0	6.85	16.99	6.90	16.94	7.03	16.82	7.39	16.46
500.0	6.90	17.30	6.96	17.24	7.09	17.11	7.48	16.72
520.0	7.16	17.38	7.23	17.31	7.38	17.16	7.84	16.70
540.0	7.33	17.53	7.40	17.46	7.58	17.29	8.10	16.77
560.0	7.25	17.94	7.33	17.86	7.51	17.67	8.07	17.11
580.0	7.07	18.42	7.16	18.33	7.36	18.12	7.99	17.50
600.0	6.96	18.83	7.05	18.73	7.27	18.51	7.92	17.86
650.0	7.36	19.11	7.46	19.01	7.71	18.76	8.47	18.01
700.0	7.50	19.62	7.61	19.51	7.88	19.24	8.71	18.41
750.0	7.50	20.22	7.62	20.10	7.92	19.81	8.81	18.91
800.0	7.66	20.62	7.79	20.49	8.11	20.18	9.07	19.21
850.0	7.37	21.43	7.51	21.30	7.85	20.96	8.88	19.92
900.0	7.50	21.80	7.64	21.66	7.99	21.31	9.07	20.24
950.0	7.76	22.02	7.91	21.86	8.28	21.49	9.43	20.34
1000.0	7.71	22.51	7.87	22.35	8.25	21.97	9.43	20.79
1050.0	7.06	23.58	7.22	23.42	7.61	23.03	8.84	21.81
1100.0	7.44	23.61	7.61	23.44	8.01	23.04	9.27	21.78
1150.0	7.67	23.76	7.84	23.59	8.25	23.18	9.55	21.88
1200.0	7.90	23.91	8.08	23.73	8.50	23.30	9.84	21.97
1250.0	7.58	24.58	7.76	24.40	8.18	23.98	9.52	22.64
1300.0	7.40	25.10	7.58	24.92	8.01	24.48	9.39	23.11
1350.0	7.91	24.92	8.09	24.73	8.54	24.29	9.96	22.87
<b>Reference Point</b>	<b>Radiation Zone</b>		<b>Center</b>					



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absolute-emc.com  
Phone: 703-774-7505  
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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
1400.0	7.93	25.22	8.11	25.03	8.56	24.58	9.98	23.17
1450.0	7.93	25.51	8.12	25.33	8.58	24.87	10.03	23.41
1500.0	7.53	26.21	7.72	26.02	8.18	25.57	9.63	24.11
1550.0	7.44	26.59	7.63	26.39	8.10	25.93	9.60	24.43
1600.0	7.72	26.58	7.91	26.39	8.38	25.92	9.88	24.42
1650.0	7.86	26.71	8.06	26.51	8.54	26.03	10.07	24.50
1700.0	8.03	26.80	8.23	26.60	8.71	26.12	10.24	24.59
1750.0	7.81	27.27	8.01	27.07	8.50	26.58	10.08	25.00
1800.0	7.61	27.71	7.81	27.51	8.30	27.02	9.88	25.45
1850.0	7.15	28.41	7.35	28.21	7.84	27.72	9.42	26.14
1900.0	7.60	28.20	7.81	27.99	8.31	27.49	9.93	25.87
1950.0	7.77	28.25	7.98	28.04	8.48	27.54	10.10	25.92
2000.0	8.02	28.22	8.23	28.01	8.73	27.51	10.35	25.89
2050.0	8.11	28.35	8.32	28.13	8.83	27.62	10.49	25.96
2100.0	7.84	28.82	8.05	28.61	8.56	28.10	10.22	26.44
2150.0	7.41	29.46	7.62	29.25	8.13	28.73	9.79	27.08
2200.0	7.01	30.06	7.22	29.85	7.73	29.33	9.39	27.67
2250.0	6.90	30.36	7.11	30.15	7.62	29.64	9.28	27.98
2300.0	6.88	30.57	7.10	30.36	7.62	29.83	9.32	28.13
2350.0	6.63	31.01	6.85	30.80	7.37	30.27	9.07	28.57
2400.0	6.75	31.07	6.97	30.86	7.49	30.33	9.19	28.63
2450.0	6.19	31.82	6.41	31.60	6.93	31.07	8.63	29.37
2500.0	6.48	31.70	6.70	31.48	7.22	30.96	8.92	29.26
2550.0	5.96	32.39	6.18	32.17	6.72	31.64	8.46	29.89
2600.0	6.08	32.44	6.30	32.22	6.84	31.68	8.58	29.94
2650.0	6.00	32.68	6.22	32.47	6.76	31.93	8.50	30.19
2700.0	6.21	32.64	6.43	32.42	6.97	31.88	8.71	30.14
2750.0	6.61	32.40	6.83	32.18	7.37	31.64	9.11	29.90
2800.0	6.43	32.73	6.65	32.51	7.19	31.98	8.93	30.23
2850.0	6.95	32.37	7.17	32.14	7.72	31.60	9.51	29.81
2900.0	6.49	32.97	6.71	32.75	7.26	32.21	9.05	30.42
2950.0	6.67	32.95	6.89	32.72	7.44	32.17	9.23	30.39
3000.0	6.15	33.62	6.37	33.39	6.92	32.84	8.71	31.06
3100.0	5.32	34.73	5.54	34.50	6.09	33.96	7.88	32.17
3200.0	5.02	35.30	5.24	35.08	5.79	34.53	7.58	32.75
3300.0	5.12	35.47	5.35	35.24	5.91	34.68	7.74	32.85
3400.0	5.29	35.56	5.52	35.33	6.08	34.77	7.91	32.94
3500.0	5.04	36.06	5.27	35.83	5.83	35.27	7.66	33.45
3600.0	4.86	36.48	5.09	36.26	5.65	35.70	7.48	33.87
3700.0	4.63	36.96	4.86	36.73	5.42	36.17	7.25	34.34
3800.0	5.07	36.75	5.30	36.51	5.87	35.94	7.74	34.07
3900.0	5.85	36.19	6.08	35.96	6.65	35.39	8.52	33.52
4000.0	6.21	36.05	6.44	35.82	7.01	35.25	8.88	33.38
4100.0	5.51	36.96	5.74	36.73	6.31	36.16	8.18	34.29
<b>Reference Point</b>	<b>Radiation Zone</b>		<b>Center</b>					

