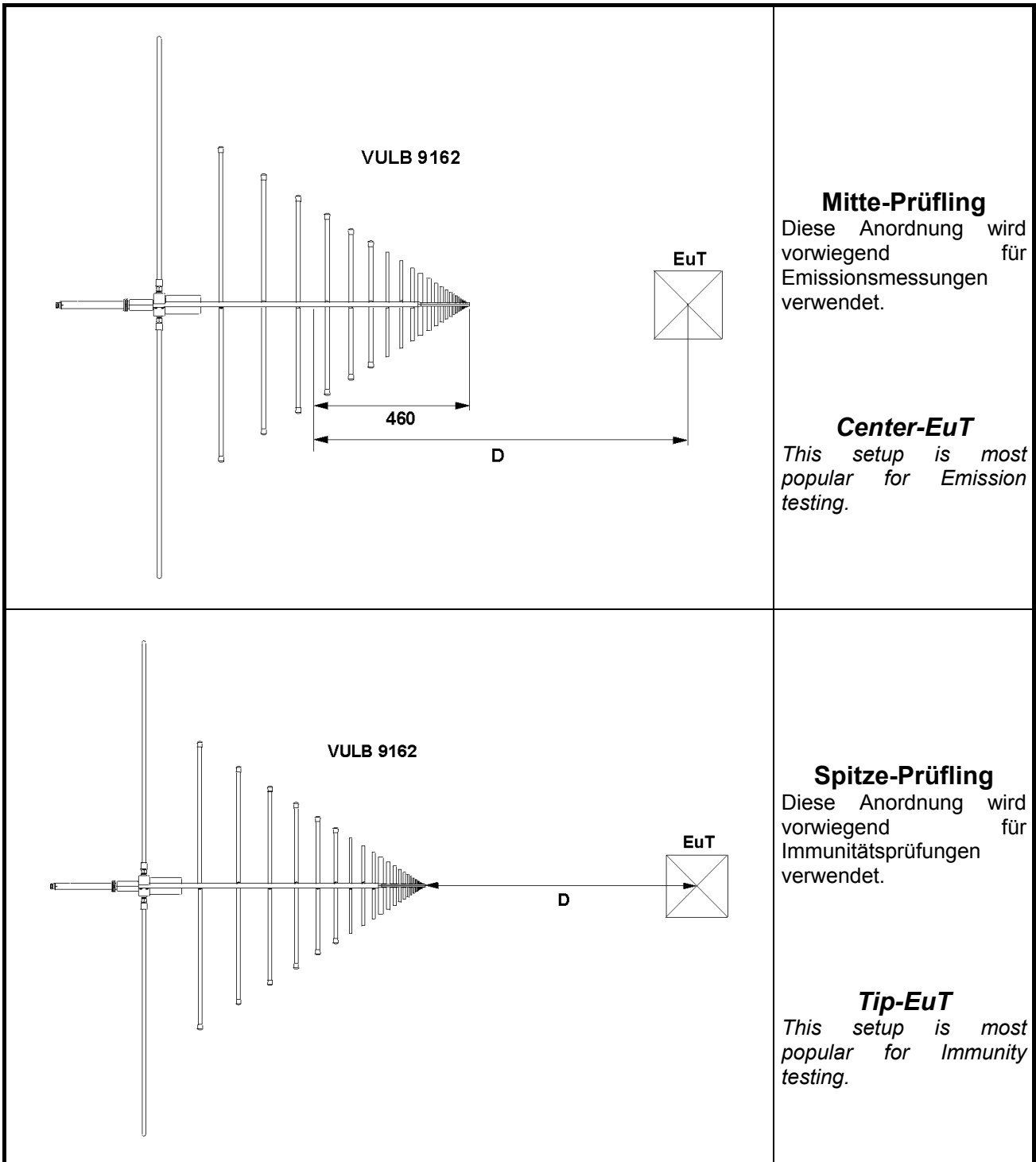


SCHWARZBECK MESS - ELEKTRONIK

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

VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance



SCHWARZBECK MESS - ELEKTRONIK

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

VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Mitte-Prüfling Center-EuT

Frequency	Gain (Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Center	k (10m) Center	gi (3m) Center	k (3m) Center
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Mitte	k (10m) Mitte	gi (3m) Mitte	k (3m) Mitte
MHz	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m
30.0	-10.56	10.32	-10.95	10.71	-11.80	11.56
32.0	-10.10	10.43	-10.49	10.81	-11.34	11.66
34.0	-9.74	10.59	-10.13	10.98	-10.98	11.83
36.0	-9.76	11.10	-10.15	11.50	-11.00	12.35
38.0	-9.90	11.72	-10.29	12.11	-11.14	12.95
40.0	-9.91	12.17	-10.30	12.56	-11.15	13.41
42.0	-9.86	12.54	-10.25	12.94	-11.10	13.78
44.0	-9.84	12.93	-10.23	13.32	-11.08	14.17
46.0	-9.70	13.18	-10.09	13.57	-10.94	14.41
48.0	-9.48	13.32	-9.87	13.72	-10.72	14.56
50.0	-9.10	13.30	-9.49	13.69	-10.34	14.54
55.0	-7.87	12.90	-8.26	13.29	-9.11	14.14
60.0	-6.35	12.13	-6.74	12.52	-7.59	13.37
65.0	-4.37	10.85	-4.76	11.24	-5.61	12.09
70.0	-1.79	8.91	-2.18	9.30	-3.03	10.15
75.0	0.52	7.20	0.13	7.59	-0.72	8.44
80.0	1.30	6.98	0.91	7.37	0.06	8.22
85.0	0.86	7.94	0.47	8.34	-0.38	9.19
90.0	0.08	9.23	-0.31	9.62	-1.16	10.46
95.0	-0.61	10.38	-1.00	10.78	-1.85	11.62
100.0	-0.82	11.04	-1.21	11.43	-2.06	12.28
105.0	-0.54	11.18	-0.93	11.57	-1.78	12.42
110.0	0.26	10.79	-0.13	11.18	-0.98	12.03
115.0	1.37	10.06	0.98	10.45	0.13	11.30
120.0	2.88	8.93	2.49	9.31	1.64	10.16
125.0	3.76	8.40	3.40	8.76	2.61	9.55
130.0	4.60	7.90	4.27	8.23	3.54	8.96
135.0	5.11	7.71	4.80	8.02	4.13	8.70
140.0	5.62	7.52	5.34	7.80	4.71	8.43
145.0	5.91	7.54	5.65	7.79	5.08	8.37
150.0	6.09	7.65	5.85	7.89	5.33	8.41
155.0	6.16	7.86	5.95	8.08	5.46	8.56
160.0	6.19	8.11	5.99	8.31	5.55	8.75
165.0	6.24	8.33	6.06	8.51	5.65	8.92
170.0	6.27	8.56	6.11	8.72	5.74	9.09
175.0	6.18	8.90	6.03	9.05	5.70	9.38
180.0	6.02	9.31	5.89	9.44	5.58	9.74
185.0	5.75	9.81	5.63	9.93	5.37	10.20
190.0	5.52	10.27	5.42	10.38	5.18	10.62
195.0	5.38	10.64	5.29	10.73	5.08	10.94
200.0	5.42	10.82	5.34	10.90	5.16	11.08
210.0	5.69	10.98	5.63	11.03	5.50	11.16
220.0	5.84	11.23	5.81	11.26	5.72	11.34
230.0	5.75	11.70	5.73	11.72	5.69	11.76
240.0	5.74	12.08	5.74	12.08	5.74	12.08
250.0	5.80	12.38	5.82	12.36	5.86	12.32
260.0	5.93	12.59	5.96	12.56	6.03	12.49
270.0	6.07	12.78	6.11	12.73	6.22	12.63
280.0	6.23	12.93	6.29	12.88	6.42	12.74

SCHWARZBECK MESS - ELEKTRONIK

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

VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Frequency	Gain (Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Center	k (10m) Center	gi (3m) Center	k (3m) Center
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Mitte	k (10m) Mitte	gi (3m) Mitte	k (3m) Mitte
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m
290.0	6.37	13.10	6.44	13.03	6.60	12.86
300.0	6.44	13.33	6.52	13.24	6.70	13.06
320.0	6.47	13.85	6.57	13.75	6.81	13.51
340.0	6.37	14.48	6.49	14.36	6.77	14.08
360.0	6.54	14.80	6.68	14.67	7.00	14.35
380.0	6.72	15.10	6.87	14.95	7.23	14.59
400.0	6.72	15.54	6.88	15.38	7.27	14.99
420.0	6.87	15.82	7.04	15.64	7.45	15.23
440.0	7.04	16.05	7.22	15.86	7.67	15.42
460.0	7.10	16.38	7.29	16.18	7.76	15.71
480.0	7.08	16.76	7.28	16.56	7.77	16.07
500.0	7.12	17.08	7.33	16.87	7.84	16.36
520.0	7.18	17.36	7.40	17.14	7.94	16.60
540.0	7.22	17.65	7.44	17.42	7.99	16.88
560.0	7.10	18.09	7.33	17.85	7.90	17.28
580.0	7.03	18.46	7.27	18.22	7.85	17.64
600.0	7.02	18.76	7.26	18.52	7.86	17.93
620.0	7.09	18.98	7.34	18.73	7.94	18.13
640.0	7.17	19.17	7.43	18.92	8.05	18.29
660.0	7.11	19.50	7.37	19.24	8.01	18.60
680.0	7.03	19.84	7.29	19.58	7.95	18.93
700.0	6.95	20.17	7.22	19.90	7.88	19.24
720.0	6.93	20.44	7.20	20.17	7.86	19.51
740.0	6.95	20.65	7.22	20.38	7.90	19.71
760.0	6.95	20.89	7.23	20.61	7.91	19.92
780.0	6.95	21.11	7.23	20.83	7.93	20.13
800.0	6.97	21.31	7.25	21.03	7.95	20.33
820.0	6.86	21.64	7.15	21.35	7.86	20.64
840.0	6.80	21.90	7.09	21.61	7.81	20.89
860.0	6.74	22.17	7.03	21.88	7.75	21.16
880.0	6.75	22.36	7.05	22.06	7.78	21.33
900.0	6.80	22.51	7.10	22.20	7.84	21.46
920.0	6.89	22.60	7.19	22.31	7.93	21.56
940.0	6.95	22.73	7.25	22.43	8.01	21.67
960.0	6.97	22.89	7.27	22.59	8.03	21.83
980.0	6.98	23.07	7.29	22.76	8.06	21.99
1000.0	6.89	23.33	7.20	23.02	7.97	22.25
1050.0	6.70	23.94	7.01	23.63	7.79	22.85
1100.0	6.80	24.25	7.12	23.93	7.91	23.14
1150.0	7.00	24.44	7.32	24.11	8.13	23.31
1200.0	6.93	24.88	7.26	24.55	8.07	23.73
1250.0	6.71	25.45	7.04	25.12	7.85	24.30
1300.0	6.73	25.77	7.06	25.44	7.89	24.61
1350.0	6.87	25.96	7.21	25.62	8.05	24.78
1400.0	7.02	26.13	7.36	25.79	8.20	24.95
1450.0	6.92	26.53	7.26	26.19	8.11	25.33
1500.0	6.81	26.94	7.15	26.59	8.00	25.74
1550.0	6.81	27.22	7.16	26.87	8.02	26.01
1600.0	6.90	27.40	7.25	27.06	8.11	26.19
1650.0	7.03	27.54	7.38	27.19	8.26	26.31
1700.0	7.01	27.82	7.36	27.47	8.24	26.59

SCHWARZBECK MESS - ELEKTRONIK

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

VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Frequency	Gain (Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Center	k (10m) Center	gi (3m) Center	k (3m) Center
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Mitte	k (10m) Mitte	gi (3m) Mitte	k (3m) Mitte
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m
1750.0	6.89	28.19	7.24	27.84	8.12	26.96
1800.0	6.80	28.53	7.15	28.17	8.04	27.28
1850.0	6.80	28.77	7.15	28.41	8.04	27.52
1900.0	6.85	28.95	7.20	28.59	8.09	27.70
1950.0	6.93	29.09	7.29	28.73	8.19	27.83
2000.0	7.00	29.24	7.36	28.88	8.26	27.98
2050.0	6.93	29.52	7.29	29.17	8.19	28.27
2100.0	6.87	29.80	7.23	29.43	8.15	28.52
2150.0	6.85	30.02	7.21	29.66	8.13	28.74
2200.0	6.92	30.15	7.28	29.78	8.20	28.87
2250.0	6.99	30.27	7.35	29.91	8.27	29.00
2300.0	7.06	30.39	7.42	30.03	8.34	29.12
2350.0	7.07	30.57	7.44	30.20	8.36	29.28
2400.0	7.02	30.81	7.39	30.44	8.31	29.51
2450.0	6.89	31.12	7.26	30.75	8.18	29.82
2500.0	6.82	31.36	7.19	30.99	8.11	30.07
2550.0	6.74	31.61	7.11	31.24	8.03	30.32
2600.0	6.73	31.79	7.10	31.42	8.04	30.48
2650.0	6.74	31.94	7.11	31.57	8.05	30.63
2700.0	6.78	32.07	7.15	31.69	8.09	30.76
2750.0	6.79	32.22	7.16	31.84	8.10	30.91
2800.0	6.78	32.38	7.15	32.01	8.09	31.07
2850.0	6.78	32.54	7.15	32.16	8.09	31.23
2900.0	6.68	32.79	7.05	32.42	7.99	31.48
2950.0	6.63	32.99	7.01	32.61	7.96	31.66
3000.0	6.53	33.24	6.91	32.86	7.86	31.91
3050.0	6.53	33.37	6.91	33.00	7.86	32.05
3100.0	6.54	33.50	6.92	33.13	7.87	32.18
3150.0	6.54	33.65	6.92	33.27	7.87	32.32
3200.0	6.53	33.80	6.91	33.42	7.86	32.47
3250.0	6.51	33.95	6.89	33.57	7.84	32.62
3300.0	6.47	34.12	6.85	33.74	7.80	32.79
3350.0	6.41	34.32	6.79	33.93	7.74	32.98
3400.0	6.30	34.55	6.68	34.17	7.64	33.21
3450.0	6.07	34.90	6.45	34.52	7.41	33.56
3500.0	5.95	35.15	6.33	34.77	7.29	33.81
3550.0	5.82	35.40	6.20	35.02	7.16	34.06
3600.0	5.76	35.59	6.14	35.20	7.10	34.24
3650.0	5.76	35.71	6.14	35.32	7.10	34.36
3700.0	5.79	35.80	6.17	35.41	7.13	34.45
3750.0	5.83	35.87	6.21	35.49	7.17	34.53
3800.0	5.88	35.93	6.26	35.55	7.22	34.59
3850.0	5.95	35.98	6.33	35.60	7.29	34.64
3900.0	6.01	36.03	6.39	35.65	7.35	34.69
3950.0	6.02	36.13	6.40	35.75	7.36	34.79
4000.0	6.00	36.26	6.39	35.87	7.36	34.90
4050.0	5.93	36.43	6.32	36.05	7.29	35.08
4100.0	5.90	36.57	6.29	36.19	7.26	35.22
4150.0	5.76	36.82	6.15	36.43	7.12	35.46
4200.0	5.62	37.07	6.01	36.68	6.98	35.70
4250.0	5.57	37.22	5.96	36.83	6.93	35.86

SCHWARZBECK MESS - ELEKTRONIK

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

VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Frequency	Gain (Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Center	k (10m) Center	gi (3m) Center	k (3m) Center
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Mitte	k (10m) Mitte	gi (3m) Mitte	k (3m) Mitte
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m
4300.0	5.41	37.48	5.80	37.09	6.77	36.12
4350.0	5.27	37.72	5.66	37.33	6.63	36.36
4400.0	5.23	37.85	5.62	37.47	6.59	36.50
4450.0	5.15	38.03	5.54	37.65	6.51	36.68
4500.0	5.12	38.16	5.51	37.78	6.48	36.80
4550.0	5.14	38.24	5.53	37.85	6.50	36.88
4600.0	5.15	38.33	5.54	37.94	6.51	36.96
4650.0	5.16	38.41	5.55	38.02	6.52	37.05
4700.0	5.16	38.51	5.55	38.12	6.52	37.14
4750.0	5.18	38.57	5.57	38.19	6.54	37.21
4800.0	5.18	38.67	5.57	38.28	6.54	37.30
4850.0	5.20	38.74	5.59	38.34	6.58	37.36
4900.0	5.17	38.85	5.56	38.46	6.55	37.48
4950.0	5.18	38.93	5.57	38.54	6.56	37.55
5000.0	5.13	39.07	5.52	38.68	6.51	37.69
5050.0	5.10	39.18	5.49	38.79	6.48	37.81
5100.0	4.97	39.40	5.36	39.01	6.35	38.02
5150.0	4.92	39.53	5.31	39.15	6.30	38.16
5200.0	4.86	39.68	5.25	39.29	6.24	38.30
5250.0	4.71	39.92	5.10	39.52	6.09	38.54
5300.0	4.63	40.07	5.02	39.68	6.01	38.70
5350.0	4.57	40.21	4.96	39.83	5.95	38.84
5400.0	4.35	40.52	4.74	40.13	5.73	39.14
5450.0	4.24	40.70	4.63	40.32	5.62	39.33
5500.0	4.15	40.88	4.54	40.49	5.53	39.50
5550.0	3.89	41.22	4.28	40.83	5.27	39.84
5600.0	3.80	41.39	4.19	40.99	5.18	40.01
5650.0	3.71	41.55	4.10	41.16	5.09	40.17
5700.0	3.63	41.71	4.02	41.32	5.01	40.33
5750.0	3.43	41.98	3.82	41.59	4.81	40.61
5800.0	3.37	42.12	3.76	41.73	4.75	40.74
5850.0	3.33	42.24	3.72	41.84	4.71	40.86
5900.0	3.30	42.34	3.69	41.95	4.68	40.96
5950.0	3.25	42.46	3.64	42.07	4.63	41.08
6000.0	3.26	42.52	3.65	42.13	4.64	41.15
6050.0	3.32	42.53	3.71	42.14	4.70	41.16
6100.0	3.38	42.55	3.77	42.16	4.76	41.17
6150.0	3.47	42.53	3.86	42.14	4.85	41.15
6200.0	3.56	42.51	3.96	42.11	4.95	41.11
6250.0	3.70	42.43	4.10	42.04	5.09	41.04
6300.0	3.78	42.43	4.18	42.03	5.17	41.03
6350.0	3.84	42.43	4.24	42.04	5.23	41.04
6400.0	3.92	42.43	4.32	42.03	5.31	41.03
6450.0	4.01	42.40	4.41	42.01	5.40	41.01
6500.0	4.05	42.43	4.45	42.03	5.44	41.03
6550.0	4.08	42.46	4.48	42.07	5.47	41.07
6600.0	4.12	42.49	4.52	42.10	5.51	41.10
6650.0	4.08	42.59	4.48	42.20	5.47	41.20
6700.0	4.05	42.69	4.45	42.30	5.44	41.30
6750.0	3.95	42.85	4.35	42.46	5.34	41.46
6800.0	3.84	43.03	4.24	42.63	5.23	41.64

SCHWARZBECK MESS - ELEKTRONIK

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

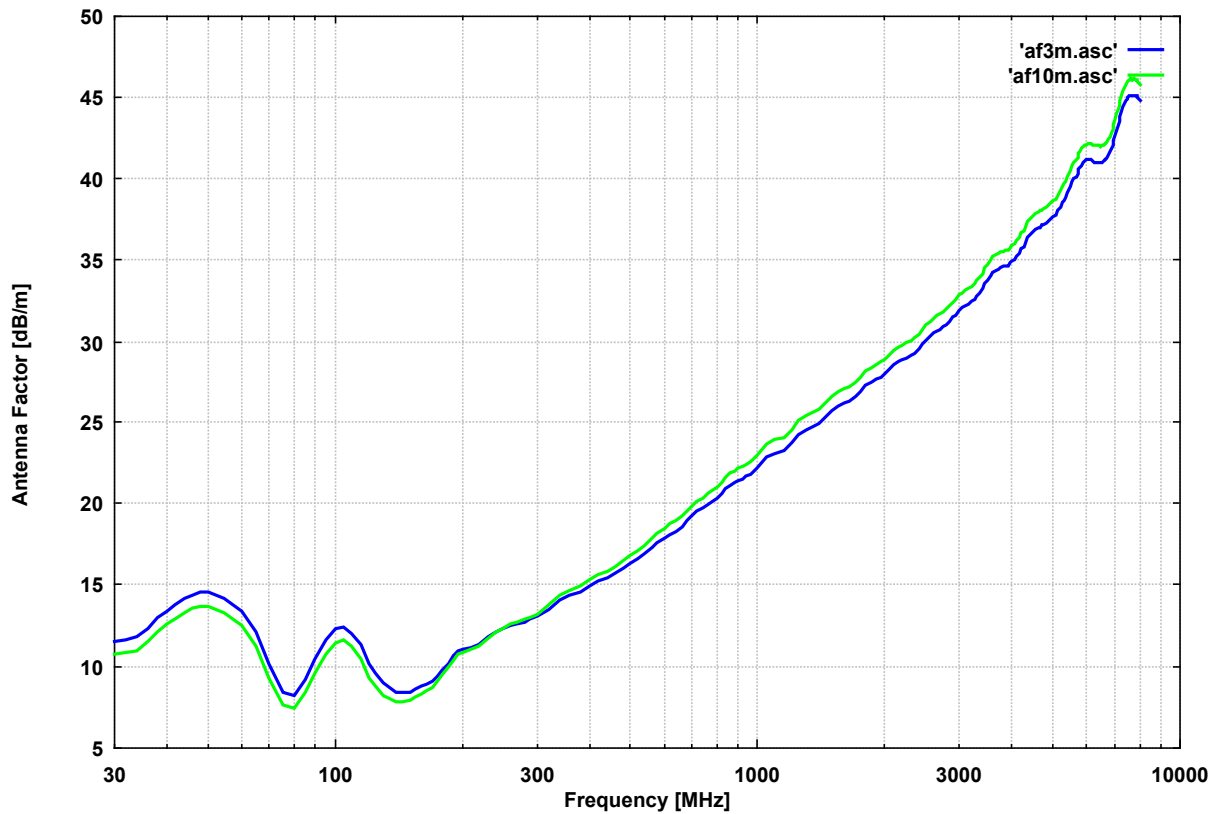
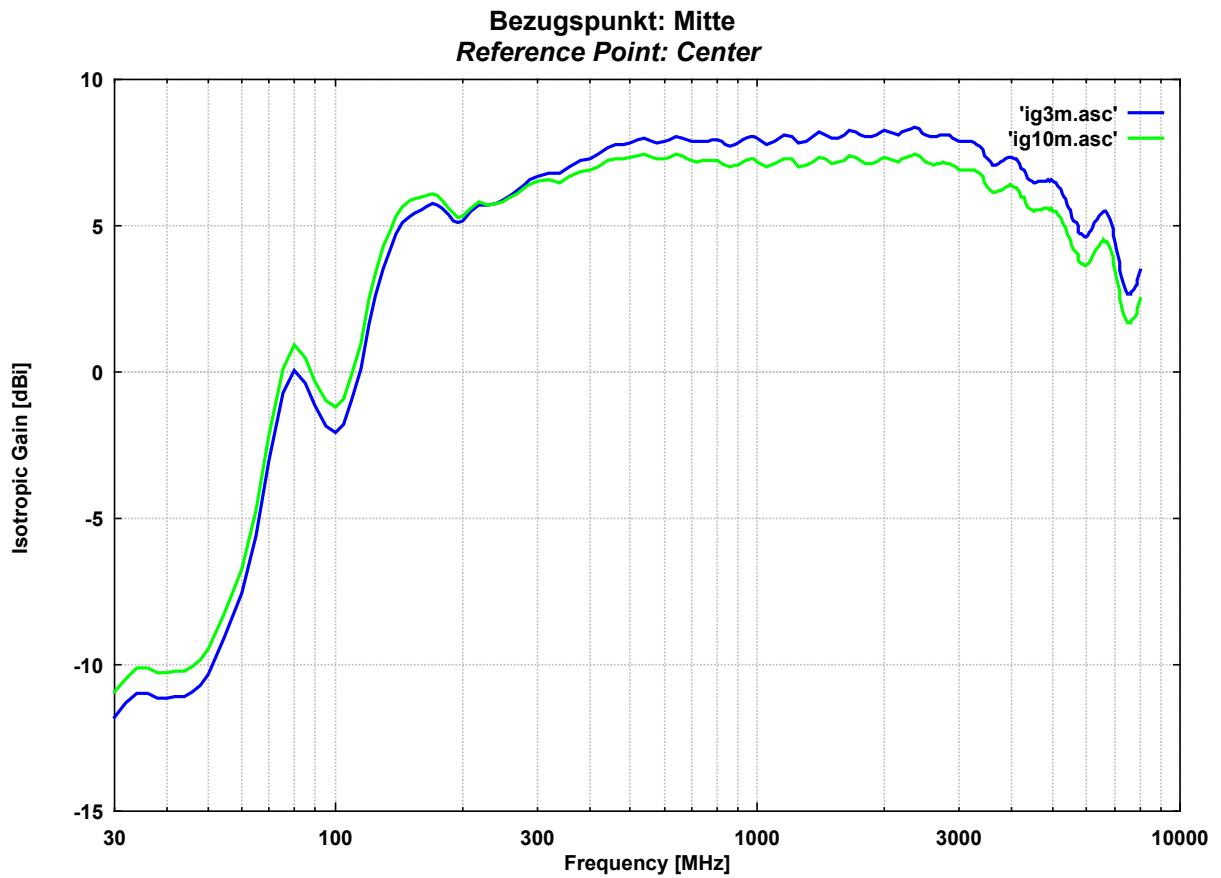
VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Frequency	Gain (Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Center	k (10m) Center	gi (3m) Center	k (3m) Center
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Mitte	k (10m) Mitte	gi (3m) Mitte	k (3m) Mitte
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m
6850.0	3.68	43.25	4.08	42.86	5.07	41.86
6900.0	3.50	43.50	3.90	43.10	4.89	42.10
6950.0	3.30	43.76	3.70	43.36	4.69	42.37
7000.0	3.07	44.05	3.47	43.66	4.46	42.66
7050.0	2.80	44.39	3.20	43.99	4.19	42.99
7100.0	2.56	44.69	2.96	44.29	3.95	43.29
7150.0	2.36	44.95	2.76	44.55	3.75	43.55
7200.0	2.12	45.25	2.52	44.85	3.51	43.85
7250.0	1.88	45.55	2.28	45.15	3.27	44.15
7300.0	1.69	45.80	2.09	45.40	3.08	44.40
7350.0	1.53	46.01	1.93	45.62	2.92	44.62
7400.0	1.41	46.20	1.81	45.80	2.80	44.80
7450.0	1.30	46.37	1.70	45.97	2.69	44.97
7500.0	1.27	46.45	1.67	46.06	2.66	45.06
7550.0	1.30	46.48	1.70	46.08	2.69	45.08
7600.0	1.30	46.54	1.70	46.14	2.69	45.14
7650.0	1.33	46.56	1.73	46.17	2.72	45.17
7700.0	1.41	46.54	1.81	46.14	2.80	45.15
7750.0	1.44	46.57	1.84	46.17	2.83	45.17
7800.0	1.53	46.53	1.93	46.14	2.92	45.14
7850.0	1.61	46.51	2.01	46.11	3.00	45.11
7900.0	1.75	46.42	2.15	46.03	3.14	45.03
7950.0	1.94	46.29	2.34	45.89	3.33	44.89
8000.0	2.09	46.19	2.49	45.80	3.48	44.80

SCHWARZBECK MESS - ELEKTRONIK

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

VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance



SCHWARZBECK MESS - ELEKTRONIK

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

VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Spitze-Prüfling Tip-EuT

Frequency	Gain(Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Tip	k (10m) Tip	gi (3m) Tip	k (3m) Tip	gi (1m) Tip	k (1m) Tip
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Spitze	k (10m) Spitze	gi (3m) Spitze	k (3m) Spitze	gi (1m) Spitze	k (1m) Spitze
MHz	dB	dB/m	dB	dB/m	dB	dB/m	dB	dB/m
30.0	-10.56	10.32	-11.32	11.09	-12.88	12.65	-16.23	15.99
32.0	-10.10	10.43	-10.86	11.19	-12.42	12.75	-15.77	16.09
34.0	-9.74	10.59	-10.50	11.35	-12.06	12.91	-15.41	16.26
36.0	-9.76	11.10	-10.52	11.87	-12.08	13.43	-15.43	16.77
38.0	-9.90	11.72	-10.66	12.48	-12.22	14.04	-15.57	17.38
40.0	-9.91	12.17	-10.67	12.94	-12.23	14.49	-15.58	17.84
42.0	-9.86	12.54	-10.62	13.31	-12.18	14.87	-15.53	18.21
44.0	-9.84	12.93	-10.60	13.69	-12.16	15.25	-15.51	18.60
46.0	-9.70	13.18	-10.46	13.94	-12.02	15.50	-15.37	18.84
48.0	-9.48	13.32	-10.24	14.09	-11.80	15.65	-15.15	18.99
50.0	-9.10	13.30	-9.86	14.06	-11.42	15.62	-14.77	18.97
55.0	-7.87	12.90	-8.63	13.66	-10.19	15.22	-13.54	18.56
60.0	-6.35	12.13	-7.11	12.90	-8.67	14.46	-12.02	17.80
65.0	-4.37	10.85	-5.13	11.61	-6.69	13.17	-10.04	16.51
70.0	-1.79	8.91	-2.55	9.68	-4.11	11.24	-7.46	14.58
75.0	0.52	7.20	-0.24	7.97	-1.80	9.52	-5.15	12.87
80.0	1.30	6.98	0.54	7.75	-1.02	9.31	-4.37	12.65
85.0	0.86	7.94	0.10	8.71	-1.46	10.27	-4.81	13.61
90.0	0.08	9.23	-0.68	9.99	-2.24	11.55	-5.59	14.89
95.0	-0.61	10.38	-1.37	11.15	-2.93	12.71	-6.28	16.05
100.0	-0.82	11.04	-1.58	11.80	-3.14	13.36	-6.49	16.71
105.0	-0.54	11.18	-1.30	11.95	-2.86	13.51	-6.21	16.85
110.0	0.26	10.79	-0.50	11.55	-2.06	13.11	-5.41	16.45
115.0	1.37	10.06	0.61	10.83	-0.95	12.39	-4.30	15.73
120.0	2.88	8.93	2.12	9.69	0.56	11.25	-2.79	14.59
125.0	3.76	8.40	3.02	9.13	1.51	10.64	-1.75	13.90
130.0	4.60	7.90	3.89	8.61	2.43	10.07	-0.74	13.24
135.0	5.11	7.71	4.43	8.40	3.01	9.82	-0.09	12.92
140.0	5.62	7.52	4.96	8.18	3.59	9.55	0.56	12.58
145.0	5.91	7.54	5.27	8.17	3.95	9.50	1.00	12.45
150.0	6.09	7.65	5.47	8.27	4.19	9.56	1.30	12.44
155.0	6.16	7.86	5.56	8.46	4.31	9.71	1.50	12.53
160.0	6.19	8.11	5.61	8.69	4.39	9.91	1.63	12.67
165.0	6.24	8.33	5.68	8.89	4.49	10.08	1.79	12.78
170.0	6.27	8.56	5.72	9.11	4.57	10.26	1.92	12.91
175.0	6.18	8.90	5.65	9.43	4.52	10.56	1.94	13.14
180.0	6.02	9.31	5.50	9.82	4.40	10.93	1.86	13.47
185.0	5.75	9.81	5.25	10.32	4.18	11.38	1.69	13.87
190.0	5.52	10.27	5.03	10.76	3.98	11.81	1.55	14.25
195.0	5.38	10.64	4.90	11.12	3.88	12.14	1.49	14.53
200.0	5.42	10.82	4.95	11.29	3.96	12.28	1.61	14.63
210.0	5.69	10.98	5.25	11.42	4.29	12.38	2.02	14.64
220.0	5.84	11.23	5.42	11.65	4.50	12.57	2.32	14.75
230.0	5.75	11.70	5.34	12.11	4.46	12.99	2.34	15.11
240.0	5.74	12.08	5.35	12.47	4.50	13.32	2.45	15.37
250.0	5.80	12.38	5.43	12.75	4.61	13.57	2.63	15.55
260.0	5.93	12.59	5.57	12.95	4.78	13.74	2.85	15.67
270.0	6.07	12.78	5.72	13.13	4.96	13.89	3.09	15.76
280.0	6.23	12.93	5.89	13.27	5.16	14.01	3.34	15.82

SCHWARZBECK MESS - ELEKTRONIK

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

VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Frequency	Gain(Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Tip	k (10m) Tip	gi (3m) Tip	k (3m) Tip	gi (1m) Tip	k (1m) Tip
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Spitze	k (10m) Spitze	gi (3m) Spitze	k (3m) Spitze	gi (1m) Spitze	k (1m) Spitze
MHz	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m
290.0	6.37	13.10	6.05	13.42	5.33	14.13	3.57	15.90
300.0	6.44	13.33	6.12	13.64	5.43	14.33	3.71	16.06
320.0	6.47	13.85	6.18	14.15	5.52	14.80	3.90	16.43
340.0	6.37	14.48	6.09	14.76	5.48	15.37	3.93	16.92
360.0	6.54	14.80	6.28	15.07	5.70	15.65	4.23	17.12
380.0	6.72	15.10	6.47	15.34	5.92	15.90	4.51	17.31
400.0	6.72	15.54	6.48	15.78	5.96	16.30	4.61	17.65
420.0	6.87	15.82	6.64	16.04	6.13	16.55	4.83	17.86
440.0	7.04	16.05	6.83	16.26	6.34	16.74	5.10	17.99
460.0	7.10	16.38	6.89	16.58	6.43	17.04	5.23	18.24
480.0	7.08	16.76	6.88	16.96	6.44	17.41	5.28	18.56
500.0	7.12	17.08	6.93	17.27	6.51	17.69	5.39	18.81
520.0	7.18	17.36	7.00	17.54	6.59	17.95	5.52	19.02
540.0	7.22	17.65	7.04	17.82	6.65	18.22	5.60	19.27
560.0	7.10	18.09	6.93	18.25	6.55	18.63	5.55	19.63
580.0	7.03	18.46	6.87	18.62	6.50	18.99	5.52	19.97
600.0	7.02	18.76	6.86	18.92	6.50	19.28	5.55	20.24
620.0	7.09	18.98	6.94	19.13	6.58	19.48	5.65	20.42
640.0	7.17	19.17	7.02	19.32	6.69	19.65	5.81	20.54
660.0	7.11	19.50	6.97	19.64	6.64	19.97	5.78	20.83
680.0	7.03	19.84	6.89	19.98	6.58	20.29	5.74	21.13
700.0	6.95	20.17	6.82	20.31	6.51	20.61	5.70	21.42
720.0	6.93	20.44	6.80	20.57	6.49	20.87	5.68	21.69
740.0	6.95	20.65	6.82	20.78	6.53	21.08	5.74	21.87
760.0	6.95	20.89	6.82	21.01	6.54	21.30	5.77	22.06
780.0	6.95	21.11	6.83	21.23	6.55	21.51	5.81	22.25
800.0	6.97	21.31	6.85	21.43	6.57	21.71	5.83	22.45
820.0	6.86	21.64	6.74	21.75	6.48	22.02	5.76	22.74
840.0	6.80	21.90	6.69	22.02	6.43	22.27	5.74	22.97
860.0	6.74	22.17	6.63	22.28	6.37	22.54	5.68	23.23
880.0	6.75	22.36	6.64	22.47	6.40	22.71	5.73	23.38
900.0	6.80	22.51	6.70	22.61	6.46	22.85	5.82	23.49
920.0	6.89	22.60	6.79	22.71	6.55	22.95	5.91	23.59
940.0	6.95	22.73	6.85	22.83	6.62	23.06	6.00	23.68
960.0	6.97	22.89	6.87	22.99	6.64	23.22	6.02	23.84
980.0	6.98	23.07	6.88	23.16	6.67	23.38	6.07	23.97
1000.0	6.89	23.33	6.79	23.43	6.58	23.64	5.98	24.24
1050.0	6.70	23.94	6.61	24.03	6.40	24.24	5.83	24.81
1100.0	6.80	24.25	6.71	24.33	6.52	24.53	5.97	25.08
1150.0	7.00	24.44	6.92	24.52	6.73	24.70	6.21	25.22
1200.0	6.93	24.88	6.85	24.95	6.67	25.13	6.18	25.62
1250.0	6.71	25.45	6.63	25.53	6.45	25.70	5.96	26.20
1300.0	6.73	25.77	6.66	25.84	6.49	26.01	6.02	26.48
1350.0	6.87	25.96	6.80	26.03	6.64	26.19	6.20	26.63
1400.0	7.02	26.13	6.95	26.19	6.79	26.35	6.35	26.79
1450.0	6.92	26.53	6.86	26.59	6.71	26.74	6.29	27.16
1500.0	6.81	26.94	6.75	27.00	6.60	27.15	6.18	27.56
1550.0	6.81	27.22	6.75	27.28	6.61	27.42	6.22	27.80
1600.0	6.90	27.40	6.84	27.46	6.70	27.60	6.31	27.99
1650.0	7.03	27.54	6.97	27.60	6.84	27.73	6.48	28.09
1700.0	7.01	27.82	6.95	27.88	6.82	28.01	6.46	28.37
1750.0	6.89	28.19	6.83	28.25	6.70	28.38	6.34	28.74

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VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Frequency	Gain(Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Tip	k (10m) Tip	gi (3m) Tip	k (3m) Tip	gi (1m) Tip	k (1m) Tip
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Spitze	k (10m) Spitze	gi (3m) Spitze	k (3m) Spitze	gi (1m) Spitze	k (1m) Spitze
MHz	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m
1800.0	6.80	28.53	6.75	28.58	6.63	28.70	6.29	29.03
1850.0	6.80	28.77	6.75	28.82	6.63	28.94	6.29	29.27
1900.0	6.85	28.95	6.80	29.00	6.68	29.12	6.34	29.45
1950.0	6.93	29.09	6.88	29.14	6.77	29.25	6.46	29.56
2000.0	7.00	29.24	6.95	29.29	6.84	29.40	6.53	29.71
2050.0	6.93	29.52	6.88	29.57	6.77	29.68	6.46	29.99
2100.0	6.87	29.80	6.83	29.84	6.73	29.94	6.45	30.22
2150.0	6.85	30.02	6.81	30.06	6.71	30.16	6.43	30.44
2200.0	6.92	30.15	6.88	30.19	6.78	30.29	6.50	30.57
2250.0	6.99	30.27	6.95	30.32	6.85	30.42	6.57	30.70
2300.0	7.06	30.39	7.02	30.44	6.92	30.54	6.64	30.82
2350.0	7.07	30.57	7.03	30.61	6.94	30.70	6.69	30.95
2400.0	7.02	30.81	6.98	30.84	6.89	30.93	6.64	31.19
2450.0	6.89	31.12	6.85	31.15	6.76	31.24	6.51	31.50
2500.0	6.82	31.36	6.78	31.40	6.69	31.49	6.44	31.74
2550.0	6.74	31.61	6.70	31.65	6.61	31.74	6.36	31.99
2600.0	6.73	31.79	6.70	31.82	6.61	31.90	6.39	32.13
2650.0	6.74	31.94	6.71	31.98	6.62	32.06	6.40	32.29
2700.0	6.78	32.07	6.75	32.10	6.66	32.18	6.44	32.41
2750.0	6.79	32.22	6.76	32.25	6.67	32.33	6.45	32.56
2800.0	6.78	32.38	6.75	32.42	6.66	32.50	6.44	32.72
2850.0	6.78	32.54	6.75	32.57	6.66	32.65	6.44	32.88
2900.0	6.68	32.79	6.65	32.82	6.56	32.90	6.34	33.13
2950.0	6.63	32.99	6.60	33.02	6.53	33.09	6.33	33.29
3000.0	6.53	33.24	6.50	33.26	6.43	33.33	6.23	33.53
3050.0	6.53	33.37	6.50	33.41	6.43	33.48	6.23	33.67
3100.0	6.54	33.50	6.51	33.54	6.44	33.61	6.24	33.81
3150.0	6.54	33.65	6.51	33.68	6.44	33.75	6.24	33.95
3200.0	6.53	33.80	6.50	33.82	6.43	33.89	6.23	34.09
3250.0	6.51	33.95	6.48	33.98	6.41	34.05	6.21	34.25
3300.0	6.47	34.12	6.44	34.15	6.37	34.22	6.17	34.42
3350.0	6.41	34.32	6.38	34.34	6.31	34.41	6.11	34.61
3400.0	6.30	34.55	6.27	34.58	6.21	34.64	6.04	34.81
3450.0	6.07	34.90	6.04	34.93	5.98	34.99	5.81	35.16
3500.0	5.95	35.15	5.92	35.18	5.86	35.24	5.69	35.41
3550.0	5.82	35.40	5.79	35.43	5.73	35.49	5.56	35.66
3600.0	5.76	35.59	5.73	35.61	5.67	35.67	5.50	35.84
3650.0	5.76	35.71	5.73	35.73	5.67	35.79	5.50	35.96
3700.0	5.79	35.80	5.76	35.82	5.70	35.88	5.53	36.05
3750.0	5.83	35.87	5.80	35.90	5.74	35.96	5.57	36.13
3800.0	5.88	35.93	5.85	35.96	5.79	36.02	5.62	36.19
3850.0	5.95	35.98	5.92	36.01	5.86	36.07	5.69	36.24
3900.0	6.01	36.03	5.98	36.06	5.92	36.12	5.75	36.29
3950.0	6.02	36.13	5.99	36.16	5.93	36.22	5.76	36.39
4000.0	6.00	36.26	5.98	36.28	5.93	36.33	5.79	36.48
4050.0	5.93	36.43	5.91	36.46	5.86	36.51	5.72	36.65
4100.0	5.90	36.57	5.88	36.60	5.83	36.65	5.69	36.79
4150.0	5.76	36.82	5.74	36.84	5.69	36.89	5.55	37.04
4200.0	5.62	37.07	5.60	37.09	5.55	37.14	5.41	37.28
4250.0	5.57	37.22	5.55	37.24	5.50	37.29	5.36	37.43
4300.0	5.41	37.48	5.39	37.50	5.34	37.55	5.20	37.69
4350.0	5.27	37.72	5.25	37.74	5.20	37.79	5.06	37.93

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VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Frequency	Gain(Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Tip	k (10m) Tip	gi (3m) Tip	k (3m) Tip	gi (1m) Tip	k (1m) Tip
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Spitze	k (10m) Spitze	gi (3m) Spitze	k (3m) Spitze	gi (1m) Spitze	k (1m) Spitze
MHz	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m	dB <i>i</i>	dB/m
4400.0	5.23	37.85	5.21	37.88	5.16	37.93	5.02	38.07
4450.0	5.15	38.03	5.13	38.06	5.08	38.11	4.94	38.25
4500.0	5.12	38.16	5.10	38.19	5.05	38.24	4.91	38.38
4550.0	5.14	38.24	5.12	38.26	5.07	38.31	4.93	38.45
4600.0	5.15	38.33	5.13	38.35	5.08	38.40	4.94	38.54
4650.0	5.16	38.41	5.14	38.43	5.09	38.48	4.95	38.62
4700.0	5.16	38.51	5.14	38.52	5.09	38.57	4.95	38.72
4750.0	5.18	38.57	5.16	38.60	5.11	38.65	4.97	38.79
4800.0	5.18	38.67	5.16	38.69	5.11	38.74	4.97	38.88
4850.0	5.20	38.74	5.18	38.75	5.14	38.79	5.03	38.91
4900.0	5.17	38.85	5.15	38.87	5.11	38.91	5.00	39.03
4950.0	5.18	38.93	5.16	38.95	5.12	38.99	5.01	39.10
5000.0	5.13	39.07	5.11	39.09	5.07	39.13	4.96	39.24
5050.0	5.10	39.18	5.08	39.20	5.04	39.24	4.93	39.36
5100.0	4.97	39.40	4.95	39.42	4.91	39.46	4.80	39.57
5150.0	4.92	39.53	4.90	39.55	4.86	39.59	4.75	39.71
5200.0	4.86	39.68	4.84	39.70	4.80	39.74	4.69	39.85
5250.0	4.71	39.92	4.69	39.93	4.65	39.97	4.54	40.09
5300.0	4.63	40.07	4.61	40.09	4.57	40.13	4.46	40.25
5350.0	4.57	40.21	4.55	40.23	4.51	40.27	4.40	40.39
5400.0	4.35	40.52	4.33	40.54	4.29	40.58	4.18	40.69
5450.0	4.24	40.70	4.22	40.73	4.18	40.77	4.07	40.88
5500.0	4.15	40.88	4.13	40.89	4.09	40.93	3.98	41.05
5550.0	3.89	41.22	3.87	41.23	3.83	41.27	3.72	41.39
5600.0	3.80	41.39	3.78	41.40	3.74	41.44	3.63	41.56
5650.0	3.71	41.55	3.69	41.57	3.65	41.61	3.54	41.72
5700.0	3.63	41.71	3.61	41.72	3.57	41.77	3.46	41.88
5750.0	3.43	41.98	3.41	42.00	3.37	42.04	3.26	42.16
5800.0	3.37	42.12	3.35	42.14	3.31	42.18	3.20	42.29
5850.0	3.33	42.24	3.31	42.25	3.27	42.29	3.16	42.41
5900.0	3.30	42.34	3.28	42.35	3.24	42.39	3.13	42.51
5950.0	3.25	42.46	3.23	42.48	3.19	42.52	3.08	42.63
6000.0	3.26	42.52	3.24	42.54	3.20	42.58	3.09	42.70
6050.0	3.32	42.53	3.30	42.55	3.26	42.59	3.15	42.71
6100.0	3.38	42.55	3.36	42.56	3.32	42.60	3.21	42.72
6150.0	3.47	42.53	3.45	42.54	3.41	42.59	3.30	42.70
6200.0	3.56	42.51	3.55	42.52	3.52	42.55	3.43	42.64
6250.0	3.70	42.43	3.69	42.45	3.66	42.48	3.57	42.57
6300.0	3.78	42.43	3.77	42.44	3.74	42.47	3.65	42.56
6350.0	3.84	42.43	3.83	42.45	3.80	42.48	3.71	42.56
6400.0	3.92	42.43	3.91	42.44	3.88	42.47	3.79	42.55
6450.0	4.01	42.40	4.00	42.41	3.97	42.44	3.88	42.53
6500.0	4.05	42.43	4.04	42.44	4.01	42.47	3.92	42.56
6550.0	4.08	42.46	4.07	42.48	4.04	42.51	3.95	42.59
6600.0	4.12	42.49	4.11	42.50	4.08	42.53	3.99	42.62
6650.0	4.08	42.59	4.07	42.61	4.04	42.64	3.95	42.73
6700.0	4.05	42.69	4.04	42.70	4.01	42.73	3.92	42.82
6750.0	3.95	42.85	3.94	42.87	3.91	42.90	3.82	42.99
6800.0	3.84	43.03	3.83	43.04	3.80	43.07	3.71	43.16
6850.0	3.68	43.25	3.67	43.27	3.64	43.30	3.55	43.38
6900.0	3.50	43.50	3.49	43.51	3.46	43.54	3.37	43.63
6950.0	3.30	43.76	3.29	43.77	3.26	43.80	3.17	43.89

SCHWARZBECK MESS - ELEKTRONIK

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VULB 9162 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung VULB 9162 Antenna Factor and Gain for short Measuring Distance

Frequency	Gain(Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Tip	k (10m) Tip	gi (3m) Tip	k (3m) Tip	gi (1m) Tip	k (1m) Tip
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Spitze	k (10m) Spitze	gi (3m) Spitze	k (3m) Spitze	gi (1m) Spitze	k (1m) Spitze
MHz	dB	dB/m	dB	dB/m	dB	dB/m	dB	dB/m
7000.0	3.07	44.05	3.06	44.06	3.03	44.10	2.94	44.18
7050.0	2.80	44.39	2.79	44.40	2.76	44.43	2.67	44.51
7100.0	2.56	44.69	2.55	44.70	2.52	44.73	2.43	44.81
7150.0	2.36	44.95	2.35	44.96	2.32	44.99	2.23	45.08
7200.0	2.12	45.25	2.11	45.26	2.08	45.29	1.99	45.38
7250.0	1.88	45.55	1.87	45.56	1.84	45.59	1.75	45.68
7300.0	1.69	45.80	1.68	45.81	1.65	45.84	1.56	45.93
7350.0	1.53	46.01	1.52	46.03	1.49	46.06	1.40	46.15
7400.0	1.41	46.20	1.40	46.21	1.37	46.24	1.28	46.32
7450.0	1.30	46.37	1.29	46.38	1.26	46.41	1.17	46.49
7500.0	1.27	46.45	1.26	46.46	1.23	46.49	1.14	46.58
7550.0	1.30	46.48	1.29	46.49	1.26	46.52	1.17	46.61
7600.0	1.30	46.54	1.29	46.55	1.26	46.58	1.17	46.67
7650.0	1.33	46.56	1.32	46.58	1.29	46.61	1.20	46.69
7700.0	1.41	46.54	1.40	46.55	1.37	46.58	1.28	46.67
7750.0	1.44	46.57	1.43	46.58	1.40	46.61	1.31	46.70
7800.0	1.53	46.53	1.52	46.54	1.49	46.58	1.40	46.66
7850.0	1.61	46.51	1.60	46.52	1.57	46.55	1.48	46.64
7900.0	1.75	46.42	1.74	46.44	1.71	46.47	1.62	46.55
7950.0	1.94	46.29	1.93	46.30	1.90	46.33	1.81	46.42
8000.0	2.09	46.19	2.08	46.20	2.05	46.24	1.96	46.32

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