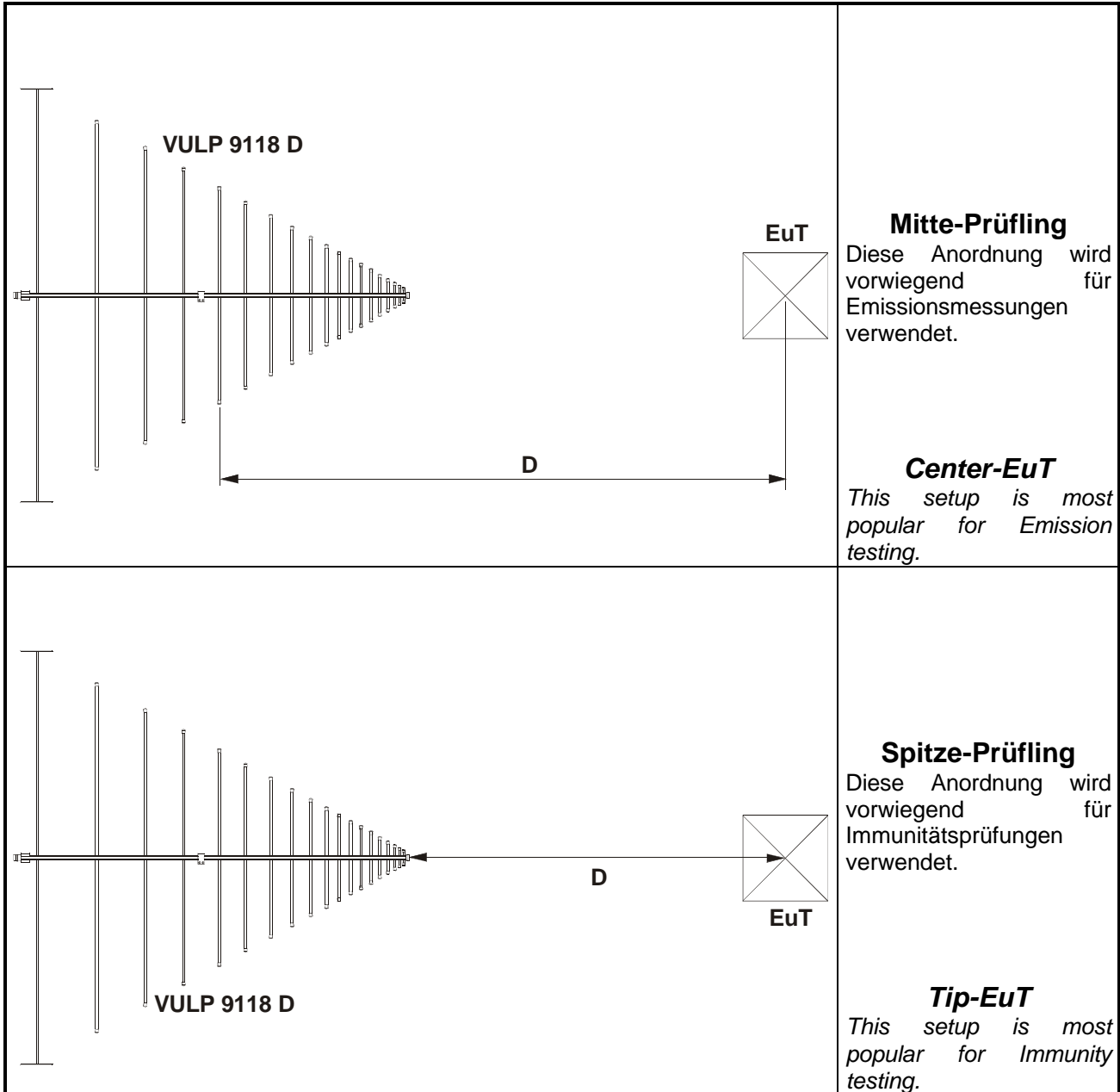


# SCHWARZBECK MESS - ELEKTRONIK

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

## VULP 9118 D Korrektur für kurze Messentfernung (Skizze der Bezugspunkte) Correction for short Measuring Distance (Sketch of Reference Points)



# SCHWARZBECK MESS - ELEKTRONIK

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

## VULP 9118 D Kalibrierdaten (Fernfeld und 1, 3, 10 m Spitze-Prüfling) VULP 9118 D Calibration Data (Farfield and 1, 3, 10 m Tip-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	2.03	4.45	0.82	5.66	-1.49	7.97	-5.93	12.41
70.0	2.78	4.35	1.57	5.56	-0.74	7.86	-5.18	12.30
75.0	2.21	5.51	1.00	6.73	-1.31	9.03	-5.75	13.47
80.0	2.36	5.92	1.15	7.14	-1.16	9.44	-5.60	13.88
85.0	3.30	5.51	2.09	6.72	-0.22	9.03	-4.66	13.47
90.0	4.41	4.90	3.20	6.11	0.89	8.42	-3.55	12.85
95.0	5.08	4.69	3.93	5.85	1.71	8.06	-2.60	12.37
100.0	5.66	4.56	4.56	5.66	2.44	7.78	-1.74	11.96
110.0	6.22	4.83	5.22	5.83	3.26	7.79	-0.71	11.75
120.0	6.17	5.63	5.25	6.55	3.43	8.38	-0.34	12.14
130.0	6.31	6.19	5.46	7.04	3.76	8.74	0.18	12.32
140.0	6.50	6.64	5.71	7.43	4.11	9.03	0.70	12.44
150.0	6.57	7.17	5.83	7.91	4.32	9.42	1.06	12.68
160.0	6.72	7.59	6.03	8.27	4.61	9.69	1.49	12.81
170.0	6.91	7.92	6.26	8.57	4.91	9.91	1.93	12.90
180.0	6.95	8.38	6.34	8.99	5.06	10.27	2.19	13.14
190.0	6.97	8.82	6.39	9.40	5.17	10.62	2.41	13.38
200.0	6.91	9.33	6.36	9.88	5.19	11.05	2.53	13.71
220.0	6.77	10.30	6.27	10.80	5.21	11.86	2.74	14.33
240.0	6.85	10.97	6.39	11.43	5.41	12.41	3.10	14.72
260.0	6.86	11.65	6.44	12.08	5.53	12.99	3.37	15.15
280.0	6.73	12.43	6.34	12.82	5.50	13.66	3.47	15.69
300.0	6.71	13.05	6.35	13.41	5.56	14.20	3.63	16.13
325.0	6.56	13.90	6.23	14.23	5.50	14.96	3.70	16.76
350.0	6.81	14.29	6.51	14.59	5.84	15.26	4.17	16.93
375.0	6.74	14.96	6.46	15.24	5.83	15.87	4.26	17.44
400.0	6.62	15.64	6.35	15.91	5.77	16.50	4.27	17.99
425.0	6.62	16.16	6.38	16.41	5.83	16.96	4.44	18.35
450.0	6.73	16.55	6.50	16.79	5.98	17.30	4.65	18.63
475.0	6.89	16.87	6.67	17.08	6.18	17.57	4.92	18.84
500.0	6.68	17.52	6.47	17.73	6.01	18.19	4.81	19.39
550.0	6.65	18.38	6.47	18.56	6.05	18.98	4.96	20.07
600.0	6.61	19.18	6.45	19.34	6.08	19.71	5.10	20.68
650.0	6.81	19.67	6.66	19.82	6.32	20.16	5.41	21.07
700.0	6.48	20.65	6.34	20.78	6.03	21.09	5.19	21.93
750.0	6.77	20.95	6.64	21.08	6.36	21.36	5.59	22.13
800.0	6.38	21.90	6.26	22.02	6.00	22.28	5.28	23.00
850.0	6.55	22.25	6.44	22.37	6.20	22.61	5.53	23.28
900.0	6.48	22.82	6.38	22.92	6.15	23.15	5.53	23.77
950.0	6.18	23.60	6.09	23.69	5.88	23.89	5.31	24.46
1000.0	6.55	23.67	6.46	23.76	6.27	23.95	5.72	24.50
<b>Bezugs- punkt:</b>	<b>Strahl- ungszone</b>	<b>Strahl- ungszone</b>	<b>Spitze der Log. - Per. Struktur</b>					
<b>Reference Point:</b>	<b>Radiating Zone</b>	<b>Radiating Zone</b>	<b>Tip of Log. - Per. Structure</b>					

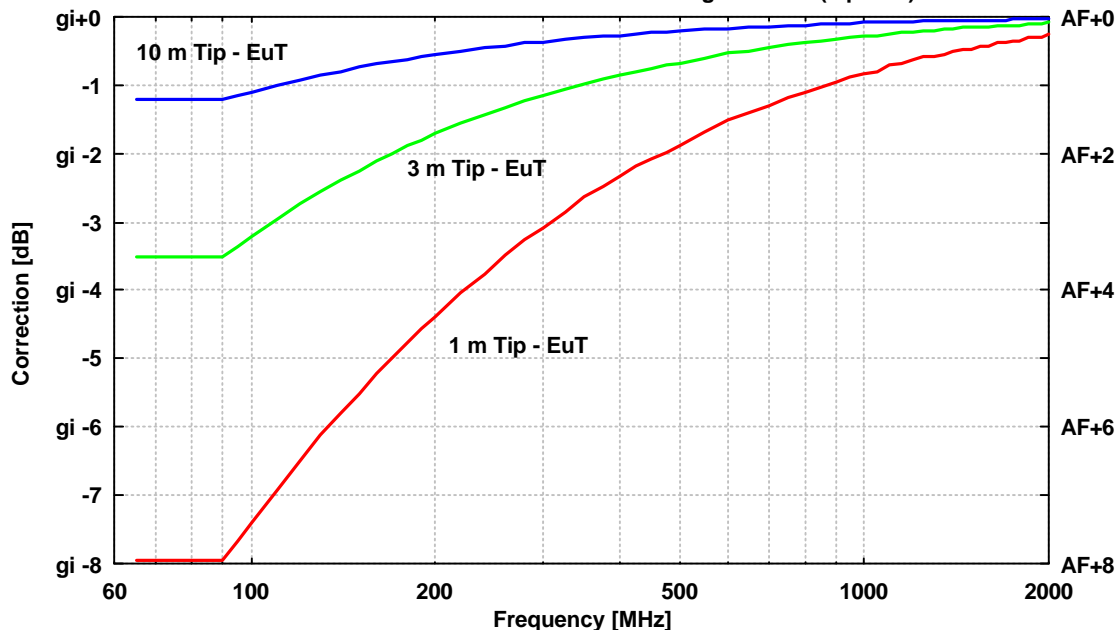
# SCHWARZBECK MESS - ELEKTRONIK

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

## VULP 9118 D Kalibrierdaten (Fernfeld und 1, 3, 10 m Spitze-Prüfling) VULP 9118 D Calibration Data (Farfield and 1, 3, 10 m Tip-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
1000.0	6.55	23.67	6.46	23.76	6.27	23.95	5.72	24.50
1050.0	6.50	24.14	6.42	24.23	6.23	24.41	5.71	24.93
1100.0	6.23	24.82	6.16	24.89	5.99	25.06	5.52	25.53
1150.0	5.95	25.48	5.88	25.55	5.72	25.71	5.28	26.15
1200.0	6.18	25.63	6.12	25.69	5.97	25.84	5.55	26.25
1250.0	6.15	26.01	6.09	26.07	5.95	26.21	5.56	26.60
1300.0	5.96	26.54	5.90	26.60	5.76	26.74	5.37	27.13
1350.0	5.36	27.46	5.30	27.52	5.17	27.65	4.81	28.01
1400.0	5.32	27.82	5.27	27.87	5.15	27.99	4.81	28.33
1450.0	5.59	27.86	5.54	27.91	5.43	28.02	5.12	28.32
1500.0	5.54	28.20	5.49	28.25	5.38	28.36	5.07	28.67
1550.0	4.96	29.06	4.92	29.11	4.82	29.21	4.54	29.49
1600.0	3.90	30.40	3.86	30.45	3.76	30.55	3.48	30.83
1650.0	3.29	31.28	3.25	31.32	3.16	31.41	2.91	31.66
1700.0	2.79	32.04	2.75	32.08	2.66	32.17	2.41	32.42
1750.0	3.20	31.88	3.17	31.92	3.08	32.00	2.86	32.22
1800.0	4.07	31.26	4.04	31.29	3.95	31.37	3.73	31.60
1850.0	4.27	31.30	4.24	31.32	4.17	31.39	3.97	31.59
1900.0	3.67	32.13	3.64	32.16	3.57	32.23	3.37	32.42
1950.0	2.55	33.47	2.52	33.50	2.45	33.57	2.25	33.77
2000.0	1.11	35.13	1.08	35.16	1.02	35.22	0.85	35.39
<b>Bezugs-</b> <b>punkt:</b>	<b>Strahl-</b> <b>ungszone</b>	<b>Strahl-</b> <b>ungszone</b>	<b>Spitze der Log. - Per. Struktur</b>					
<b>Reference</b> <b>Point:</b>	<b>Radiating</b> <b>Zone</b>	<b>Radiating</b> <b>Zone</b>	<b>Tip of Log. - Per. Structure</b>					

VULP 9118 D Korrektur für kurze Messentfernung (Bezugspunkt: Spitze)  
VULP 9118 D Correction for short Measuring Distance (Tip-EuT)



# SCHWARZBECK MESS - ELEKTRONIK

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

## VULP 9118 D Kalibrierdaten (Fernfeld und 3, 10 m Mitte-Prüfling)

## VULP 9118 D Calibration Data (Farfield and 3, 10 m 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	2.03	4.45	1.40	5.08	0.09	6.39	-2.83	9.31
70.0	2.78	4.35	2.15	4.97	0.84	6.28	-2.08	9.20
75.0	2.21	5.51	1.58	6.14	0.27	7.45	-2.65	10.37
80.0	2.36	5.92	1.73	6.55	0.42	7.86	-2.50	10.78
85.0	3.30	5.51	2.67	6.14	1.36	7.45	-1.56	10.37
90.0	4.41	4.90	3.78	5.52	2.47	6.83	-0.45	9.76
95.0	5.08	4.69	4.52	5.26	3.33	6.45	0.63	9.15
100.0	5.66	4.56	5.16	5.06	4.09	6.13	1.60	8.62
110.0	6.22	4.83	5.82	5.23	4.96	6.09	2.87	8.17
120.0	6.17	5.63	5.86	5.95	5.17	6.63	3.47	8.34
130.0	6.31	6.19	6.07	6.42	5.55	6.95	4.20	8.30
140.0	6.50	6.64	6.33	6.81	5.94	7.20	4.92	8.23
150.0	6.57	7.17	6.45	7.29	6.19	7.55	5.47	8.27
160.0	6.72	7.59	6.66	7.65	6.51	7.80	6.09	8.21
170.0	6.91	7.92	6.89	7.94	6.84	7.99	6.70	8.13
180.0	6.95	8.38	6.97	8.36	7.01	8.32	7.13	8.20
190.0	6.97	8.82	7.02	8.77	7.15	8.65	7.51	8.29
200.0	6.91	9.33	6.99	9.25	7.19	9.05	7.78	8.46
220.0	6.77	10.30	6.91	10.16	7.25	9.82	8.28	8.78
240.0	6.85	10.97	7.03	10.79	7.48	10.34	8.90	8.93
260.0	6.86	11.65	7.08	11.44	7.63	10.89	9.42	9.10
280.0	6.73	12.43	6.99	12.17	7.63	11.53	9.77	9.40
300.0	6.71	13.05	7.00	12.77	7.71	12.06	10.12	9.64
325.0	6.56	13.90	6.88	13.58	7.67	12.79	10.44	10.02
350.0	6.81	14.29	7.16	13.94	8.04	13.07	11.17	9.93
375.0	6.74	14.96	7.11	14.59	8.05	13.65	11.47	10.23
400.0	6.62	15.64	7.01	15.25	8.00	14.26	11.66	10.60
425.0	6.62	16.16	7.03	15.75	8.08	14.70	12.05	10.73
450.0	6.73	16.55	7.16	16.13	8.24	15.04	12.41	10.87
475.0	6.89	16.87	7.33	16.42	8.46	15.30	12.82	10.93
500.0	6.68	17.52	7.13	17.06	8.30	15.90	12.88	11.32
550.0	6.65	18.38	7.13	17.90	8.36	16.67	13.30	11.73
600.0	6.61	19.18	7.11	18.67	8.40	17.38	13.74	12.04
650.0	6.81	19.67	7.32	19.15	8.66	17.82	14.24	12.24
700.0	6.48	20.65	7.01	20.11	8.38	18.74	14.22	12.90
750.0	6.77	20.95	7.31	20.41	8.73	18.99	14.84	12.88
800.0	6.38	21.90	6.93	21.35	8.37	19.91	14.67	13.61
850.0	6.55	22.25	7.11	21.70	8.58	20.23	15.07	13.74
900.0	6.48	22.82	7.05	22.26	8.55	20.76	15.23	14.07
950.0	6.18	23.60	6.76	23.02	8.28	21.49	15.18	14.60
1000.0	6.55	23.67	7.13	23.09	8.67	21.55	15.67	14.55
<b>Bezugs-</b> <b>punkt:</b>	<b>Strahl-</b> <b>ungszone</b>	<b>Strahl-</b> <b>ungszone</b>	<b>Mitte der Log. - Per. Struktur</b>					
<b>Reference</b> <b>Point:</b>	<b>Radiating</b> <b>Zone</b>	<b>Radiating</b> <b>Zone</b>	<b>Center of Log. - Per. Structure</b>					

# SCHWARZBECK MESS - ELEKTRONIK

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

## VULP 9118 D Kalibrierdaten (Fernfeld und 3, 10 m Mitte-Prüfling) VULP 9118 D Calibration Data (Farfield and 3, 10 m 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
1000.0	6.55	23.67	7.13	23.09	8.67	21.55	15.67	14.55
1050.0	6.50	24.14	7.09	23.56	8.64	22.00	15.74	14.90
1100.0	6.23	24.82	6.83	24.22	8.41	22.64	15.73	15.32
1150.0	5.95	25.48	6.55	24.88	8.15	23.29	15.58	15.85
1200.0	6.18	25.63	6.79	25.02	8.39	23.41	15.94	15.86
1250.0	6.15	26.01	6.76	25.40	8.38	23.78	16.05	16.11
1300.0	5.96	26.54	6.57	25.93	8.19	24.31	15.86	16.64
1350.0	5.36	27.46	5.98	26.85	7.61	25.22	15.39	17.43
1400.0	5.32	27.82	5.94	27.20	7.59	25.55	15.49	17.65
1450.0	5.59	27.86	6.22	27.23	7.88	25.57	15.90	17.54
1500.0	5.54	28.20	6.17	27.58	7.83	25.91	15.85	17.89
1550.0	4.96	29.06	5.59	28.44	7.27	26.76	15.42	18.61
1600.0	3.90	30.40	4.53	29.77	6.21	28.09	14.36	19.94
1650.0	3.29	31.28	3.93	30.64	5.62	28.95	13.89	20.68
1700.0	2.79	32.04	3.43	31.40	5.12	29.71	13.39	21.44
1750.0	3.20	31.88	3.84	31.24	5.55	29.54	13.95	21.13
1800.0	4.07	31.26	4.71	30.62	6.42	28.91	14.82	20.50
1850.0	4.27	31.30	4.91	30.65	6.63	28.93	15.17	20.39
1900.0	3.67	32.13	4.31	31.48	6.03	29.76	14.57	21.22
1950.0	2.55	33.47	3.19	32.83	4.91	31.11	13.45	22.57
2000.0	1.11	35.13	1.76	34.48	3.49	32.75	12.17	24.07
<b>Bezugs-</b> <b>punkt:</b>	<b>Strahl-</b> <b>ungszone</b>	<b>Strahl-</b> <b>ungszone</b>	<b>Mitte der Log. - Per. Struktur</b>					
<b>Reference</b> <b>Point:</b>	<b>Radiating</b> <b>Zone</b>	<b>Radiating</b> <b>Zone</b>	<b>Center of Log. - Per. Structure</b>					

### VULP 9118 D Korrektur für kurze Messentfernung (Bezugspunkt: Mitte) VULP 9118 D Correction for short Measuring Distance (Center-EuT)

