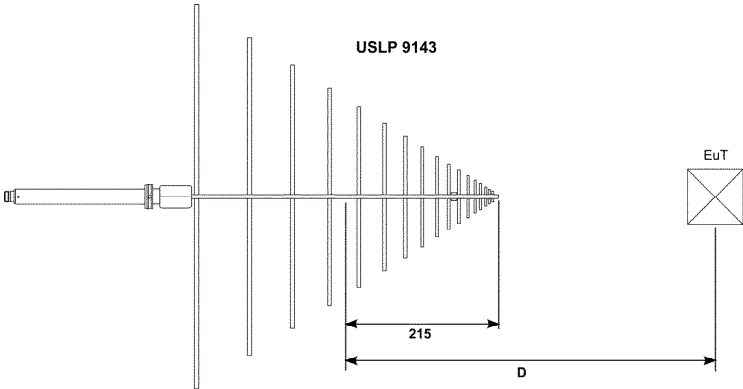
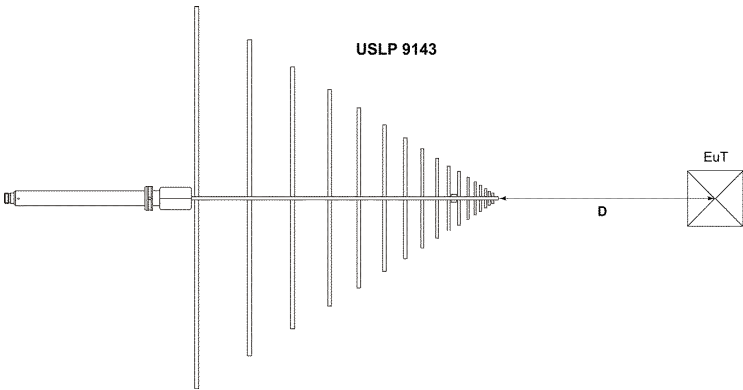


SCHWARZBECK MESS - ELEKTRONIK

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

USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung *USLP 9143 Antenna Factor and Gain for short Measuring Distance*

	Mitte-Prüfling Diese Anordnung wird vorwiegend für Emissionsmessungen verwendet. Center-EuT <i>This setup is most popular for Emission testing.</i>
	Spitze-Prüfling Diese Anordnung wird vorwiegend für Immunitätsprüfungen verwendet. Tip-EuT <i>This setup is most popular for Immunity testing.</i>

SCHWARZBECK MESS - ELEKTRONIK

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

USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 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	gi (1m) Center	k (1m) Center
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Mitte	k (10m) Mitte	gi (3m) Mitte	k (3m) Mitte	gi (1m) Mitte	k (1m) Mitte
MHz	dB	dB/m	dB	dB/m	dB	dB/m	dB	dB/m
240.0	1.63	16.20	1.45	16.38	1.03	16.80	-0.06	17.89
250.0	3.40	14.78	3.22	14.96	2.80	15.38	1.71	16.47
260.0	4.14	14.38	3.96	14.56	3.54	14.98	2.45	16.07
270.0	4.65	14.20	4.47	14.38	4.05	14.80	2.96	15.89
280.0	5.14	14.02	4.96	14.20	4.55	14.61	3.48	15.68
290.0	5.49	13.98	5.32	14.15	4.94	14.52	3.94	15.53
300.0	5.72	14.04	5.57	14.20	5.21	14.55	4.28	15.48
320.0	6.21	14.12	6.08	14.25	5.77	14.55	4.96	15.36
340.0	6.50	14.34	6.39	14.46	6.13	14.72	5.44	15.41
360.0	6.25	15.10	6.15	15.19	5.94	15.41	5.34	16.00
380.0	5.82	16.00	5.74	16.08	5.55	16.27	5.03	16.78
400.0	5.21	17.05	5.14	17.12	4.98	17.28	4.54	17.72
420.0	4.89	17.79	4.83	17.85	4.70	17.98	4.34	18.34
440.0	6.03	17.06	5.99	17.10	5.89	17.20	5.61	17.48
460.0	5.97	17.51	5.94	17.54	5.85	17.62	5.63	17.85
480.0	6.07	17.77	6.05	17.80	6.00	17.85	5.86	17.99
500.0	6.29	17.91	6.28	17.92	6.25	17.95	6.16	18.04
520.0	6.29	18.25	6.28	18.26	6.26	18.28	6.20	18.34
540.0	6.21	18.66	6.21	18.66	6.21	18.66	6.21	18.66
560.0	6.19	18.99	6.20	18.99	6.22	18.96	6.28	18.91
580.0	6.29	19.20	6.30	19.19	6.33	19.16	6.42	19.07
600.0	6.48	19.31	6.50	19.28	6.55	19.23	6.70	19.08
620.0	6.58	19.49	6.61	19.46	6.67	19.40	6.84	19.22
640.0	6.58	19.77	6.61	19.73	6.68	19.66	6.89	19.45
660.0	6.54	20.07	6.57	20.04	6.66	19.95	6.89	19.72
680.0	6.69	20.18	6.73	20.14	6.84	20.03	7.14	19.73
700.0	6.88	20.24	6.93	20.19	7.04	20.08	7.37	19.75
720.0	6.89	20.48	6.94	20.42	7.07	20.30	7.43	19.94
740.0	6.79	20.81	6.84	20.76	6.97	20.64	7.33	20.28
760.0	6.66	21.17	6.72	21.12	6.85	20.99	7.24	20.59
780.0	6.45	21.61	6.51	21.55	6.66	21.41	7.08	20.98
800.0	6.34	21.94	6.41	21.88	6.56	21.72	7.02	21.26
820.0	6.28	22.22	6.35	22.15	6.51	21.98	7.00	21.49
840.0	6.34	22.37	6.41	22.30	6.57	22.13	7.06	21.64
860.0	6.55	22.36	6.62	22.29	6.80	22.11	7.32	21.59
880.0	6.87	22.24	6.95	22.16	7.13	21.98	7.69	21.42
900.0	7.18	22.13	7.26	22.05	7.44	21.86	8.00	21.31
920.0	7.29	22.20	7.37	22.12	7.57	21.93	8.16	21.34
940.0	7.21	22.47	7.29	22.39	7.49	22.19	8.08	21.61
960.0	6.98	22.89	7.07	22.80	7.27	22.59	7.90	21.97
980.0	6.80	23.24	6.89	23.15	7.11	22.94	7.76	22.28
1000.0	6.75	23.47	6.84	23.38	7.06	23.16	7.71	22.51
1050.0	6.96	23.69	7.06	23.59	7.28	23.36	7.97	22.67
1100.0	6.70	24.35	6.80	24.25	7.04	24.01	7.76	23.29
1150.0	6.60	24.83	6.70	24.73	6.95	24.48	7.71	23.72
1200.0	6.52	25.28	6.63	25.17	6.89	24.91	7.68	24.12
1250.0	6.56	25.60	6.67	25.48	6.94	25.21	7.77	24.39
1300.0	6.95	25.55	7.07	25.43	7.35	25.15	8.21	24.29
1350.0	6.93	25.90	7.05	25.78	7.33	25.50	8.19	24.64

SCHWARZBECK MESS - ELEKTRONIK

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

USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 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	gi (1m) Center	k (1m) Center
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Mitte	k (10m) Mitte	gi (3m) Mitte	k (3m) Mitte	gi (1m) Mitte	k (1m) Mitte
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
1400.0	6.73	26.42	6.85	26.29	7.15	26.00	8.04	25.10
1450.0	6.62	26.83	6.75	26.70	7.05	26.40	7.98	25.47
1500.0	6.60	27.14	6.73	27.01	7.03	26.71	7.96	25.78
1550.0	6.77	27.26	6.90	27.13	7.22	26.81	8.18	25.85
1600.0	6.91	27.39	7.04	27.26	7.36	26.95	8.32	25.98
1650.0	6.68	27.89	6.82	27.75	7.14	27.43	8.14	26.43
1700.0	6.29	28.54	6.43	28.40	6.75	28.08	7.75	27.08
1750.0	6.18	28.90	6.32	28.77	6.64	28.44	7.64	27.44
1800.0	6.34	28.99	6.48	28.85	6.82	28.51	7.85	27.47
1850.0	6.67	28.89	6.81	28.75	7.15	28.42	8.18	27.38
1900.0	6.86	28.93	7.00	28.79	7.35	28.44	8.43	27.37
1950.0	6.56	29.46	6.70	29.32	7.05	28.97	8.13	27.89
2000.0	6.15	30.09	6.29	29.95	6.64	29.60	7.72	28.52
2050.0	5.72	30.73	5.86	30.59	6.21	30.24	7.29	29.17
2100.0	5.68	30.99	5.83	30.84	6.19	30.48	7.30	29.37
2150.0	5.81	31.06	5.96	30.91	6.32	30.55	7.43	29.44
2200.0	6.04	31.03	6.19	30.88	6.55	30.52	7.66	29.41
2250.0	6.22	31.04	6.37	30.89	6.74	30.52	7.89	29.37
2300.0	6.17	31.29	6.32	31.13	6.69	30.76	7.84	29.61
2350.0	5.69	31.95	5.84	31.80	6.21	31.43	7.36	30.28
2400.0	5.34	32.48	5.49	32.33	5.86	31.96	7.01	30.81
2450.0	5.23	32.77	5.38	32.62	5.75	32.25	6.90	31.10
2500.0	5.32	32.86	5.48	32.70	5.86	32.32	7.04	31.14
2550.0	5.51	32.84	5.67	32.68	6.05	32.30	7.23	31.12
2600.0	5.68	32.84	5.84	32.68	6.22	32.30	7.40	31.12
2650.0	5.78	32.91	5.94	32.75	6.32	32.37	7.50	31.18
2700.0	5.85	33.00	6.01	32.84	6.39	32.46	7.57	31.27
2750.0	5.87	33.13	6.03	32.97	6.42	32.58	7.65	31.36
2800.0	5.84	33.33	6.00	33.16	6.39	32.77	7.62	31.55
2850.0	5.80	33.52	5.96	33.35	6.35	32.96	7.58	31.74
2900.0	5.71	33.76	5.87	33.60	6.26	33.21	7.49	31.98
2950.0	5.66	33.96	5.82	33.79	6.21	33.40	7.44	32.18
3000.0	5.63	34.13	5.79	33.97	6.18	33.58	7.41	32.36
3050.0	5.64	34.26	5.80	34.10	6.19	33.71	7.42	32.49
3100.0	5.66	34.39	5.83	34.22	6.23	33.82	7.49	32.56
3150.0	5.67	34.52	5.84	34.35	6.24	33.95	7.50	32.69
3200.0	5.64	34.68	5.81	34.52	6.21	34.11	7.47	32.85
3250.0	5.60	34.86	5.77	34.69	6.17	34.29	7.43	33.03
3300.0	5.57	35.02	5.74	34.85	6.14	34.45	7.40	33.19
3350.0	5.51	35.21	5.68	35.04	6.08	34.64	7.34	33.38
3400.0	5.44	35.41	5.61	35.24	6.01	34.84	7.27	33.58
3450.0	5.28	35.70	5.45	35.53	5.85	35.13	7.11	33.87
3500.0	5.16	35.94	5.33	35.77	5.73	35.37	6.99	34.11
3550.0	5.04	36.18	5.21	36.01	5.62	35.60	6.92	34.30
3600.0	4.97	36.38	5.14	36.21	5.55	35.79	6.85	34.49
3650.0	4.97	36.50	5.14	36.32	5.55	35.91	6.85	34.61
3700.0	5.00	36.58	5.17	36.41	5.58	36.00	6.88	34.70
3750.0	5.05	36.65	5.22	36.48	5.63	36.07	6.93	34.77
3800.0	5.08	36.73	5.25	36.56	5.66	36.15	6.96	34.85
3850.0	5.08	36.85	5.25	36.68	5.66	36.27	6.96	34.97
3900.0	5.07	36.97	5.24	36.80	5.65	36.39	6.95	35.09
3950.0	5.06	37.09	5.23	36.92	5.64	36.51	6.94	35.21

SCHWARZBECK MESS - ELEKTRONIK

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

USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 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	gi (1m) Center	k (1m) Center
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Mitte	k (10m) Mitte	gi (3m) Mitte	k (3m) Mitte	gi (1m) Mitte	k (1m) Mitte
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
4000.0	5.01	37.25	5.18	37.08	5.59	36.67	6.89	35.37
4050.0	4.93	37.44	5.10	37.27	5.51	36.86	6.81	35.56
4100.0	4.94	37.54	5.11	37.36	5.52	36.95	6.82	35.65
4150.0	4.89	37.69	5.07	37.52	5.49	37.09	6.83	35.75
4200.0	4.92	37.77	5.10	37.59	5.52	37.17	6.86	35.83
4250.0	5.00	37.78	5.18	37.61	5.60	37.19	6.94	35.85
4300.0	5.19	37.70	5.37	37.52	5.79	37.10	7.13	35.76
4350.0	5.39	37.60	5.57	37.42	5.99	37.00	7.33	35.66
4400.0	5.53	37.56	5.71	37.38	6.13	36.96	7.47	35.62
4450.0	5.70	37.48	5.88	37.31	6.30	36.89	7.64	35.55
4500.0	5.82	37.47	6.00	37.29	6.42	36.86	7.76	35.53
4550.0	5.87	37.51	6.05	37.33	6.47	36.91	7.81	35.57
4600.0	5.86	37.61	6.04	37.44	6.46	37.02	7.80	35.68
4650.0	5.85	37.72	6.03	37.54	6.45	37.12	7.79	35.78
4700.0	5.71	37.96	5.89	37.78	6.31	37.35	7.65	36.01
4750.0	5.64	38.12	5.82	37.94	6.24	37.51	7.58	36.18
4800.0	5.42	38.43	5.60	38.25	6.02	37.83	7.36	36.49
4850.0	5.31	38.62	5.49	38.45	5.91	38.03	7.25	36.69
4900.0	5.07	38.95	5.25	38.78	5.67	38.35	7.01	37.02
4950.0	4.98	39.13	5.16	38.96	5.58	38.53	6.92	37.19
5000.0	4.78	39.42	4.96	39.24	5.39	38.80	6.77	37.43
5050.0	4.73	39.56	4.91	39.38	5.34	38.94	6.72	37.56
5100.0	4.63	39.74	4.81	39.56	5.24	39.13	6.62	37.75
5150.0	4.65	39.81	4.83	39.63	5.26	39.19	6.64	37.81
5200.0	4.69	39.85	4.87	39.67	5.30	39.24	6.68	37.86
5250.0	4.78	39.84	4.96	39.66	5.39	39.23	6.77	37.85
5300.0	4.90	39.81	5.08	39.63	5.51	39.19	6.89	37.81
5350.0	5.00	39.78	5.18	39.61	5.61	39.17	6.99	37.79
5400.0	5.24	39.63	5.42	39.45	5.85	39.01	7.23	37.64
5450.0	5.38	39.57	5.56	39.39	5.99	38.95	7.37	37.58
5500.0	5.49	39.54	5.67	39.36	6.10	38.92	7.48	37.54
5550.0	5.61	39.50	5.79	39.32	6.22	38.88	7.60	37.50
5600.0	5.66	39.52	5.84	39.34	6.27	38.91	7.65	37.53
5650.0	5.70	39.56	5.88	39.38	6.31	38.95	7.69	37.57
5700.0	5.70	39.63	5.88	39.46	6.31	39.02	7.69	37.64
5750.0	5.62	39.79	5.80	39.61	6.23	39.18	7.61	37.80
5800.0	5.57	39.92	5.75	39.74	6.18	39.30	7.56	37.93
5850.0	5.52	40.04	5.70	39.86	6.13	39.43	7.51	38.05
5900.0	5.47	40.17	5.65	39.99	6.08	39.55	7.46	38.17
5950.0	5.38	40.33	5.56	40.15	5.99	39.72	7.37	38.34
6000.0	5.39	40.40	5.57	40.21	6.00	39.78	7.38	38.40
6050.0	5.42	40.43	5.60	40.26	6.03	39.82	7.41	38.44
6100.0	5.45	40.48	5.63	40.30	6.06	39.86	7.44	38.48
6150.0	5.47	40.52	5.65	40.35	6.08	39.91	7.46	38.53
6200.0	5.51	40.56	5.69	40.38	6.12	39.94	7.50	38.57
6250.0	5.55	40.58	5.73	40.41	6.16	39.97	7.54	38.59
6300.0	5.60	40.61	5.78	40.42	6.23	39.98	7.65	38.56
6350.0	5.62	40.66	5.80	40.47	6.25	40.03	7.67	38.61
6400.0	5.63	40.71	5.81	40.53	6.26	40.08	7.68	38.67
6450.0	5.67	40.74	5.85	40.56	6.30	40.11	7.72	38.69
6500.0	5.70	40.77	5.88	40.59	6.33	40.15	7.75	38.73
6550.0	5.71	40.84	5.89	40.65	6.34	40.20	7.76	38.79

SCHWARZBECK MESS - ELEKTRONIK

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

USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 Antenna Factor and Gain for short Measuring Distance

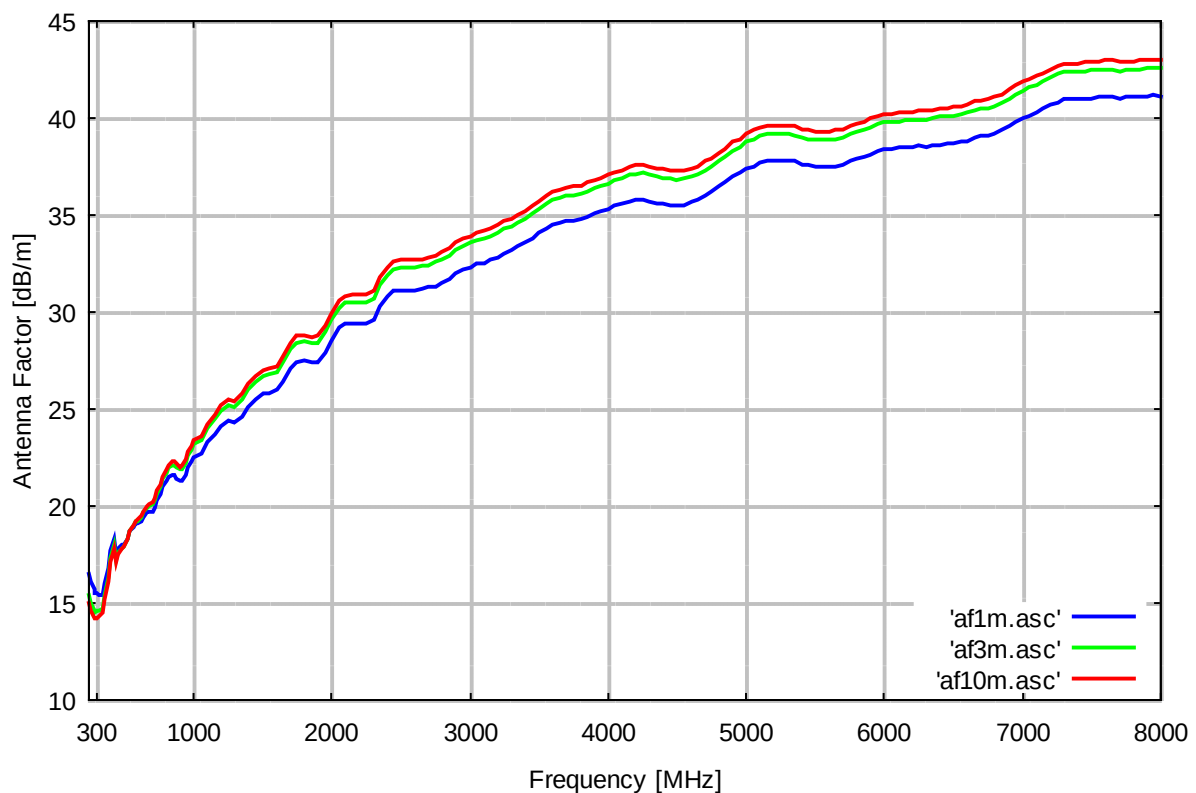
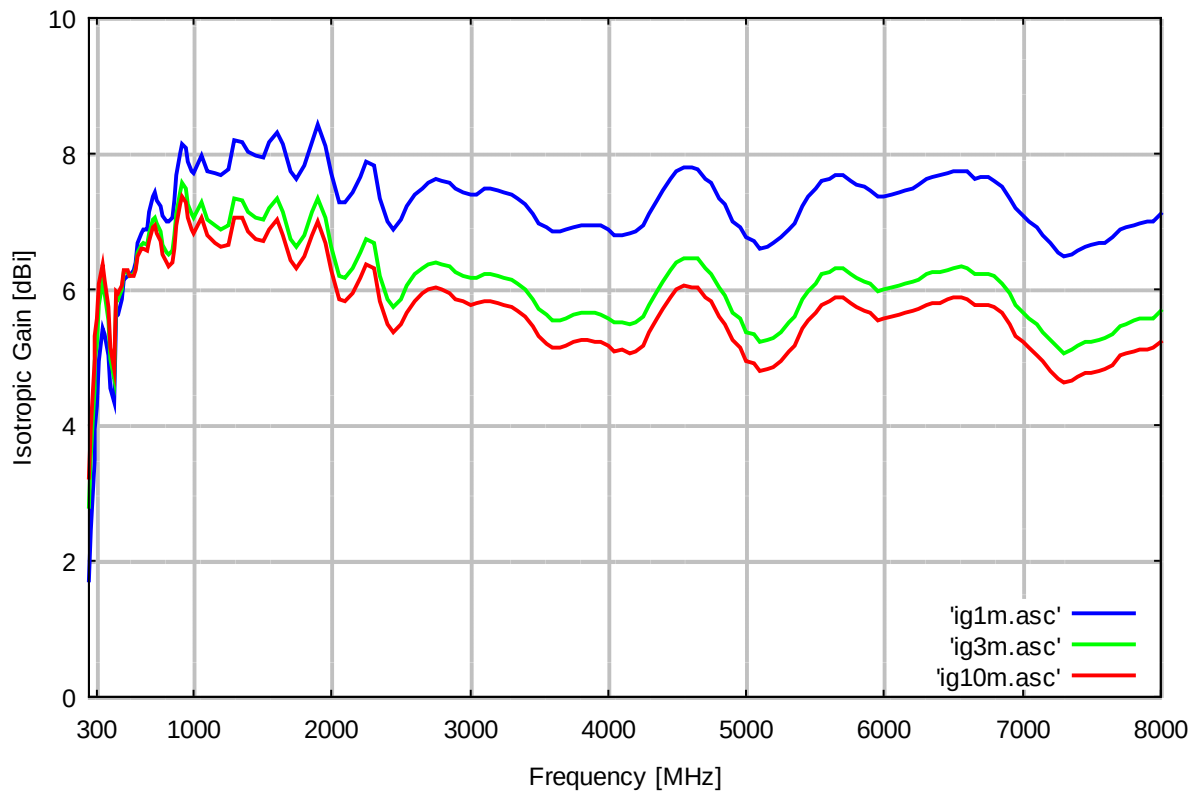
Frequency	Gain(Iso.) Farfield	Ant.-Fact k Farfield	gi (10 m) Center	k (10m) Center	gi (3m) Center	k (3m) Center	gi (1m) Center	k (1m) Center
Frequenz	Gewinn Fernfeld	Ant.Faktor Fernfeld	gi (10 m) Mitte	k (10m) Mitte	gi (3m) Mitte	k (3m) Mitte	gi (1m) Mitte	k (1m) Mitte
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
6600.0	5.69	40.92	5.87	40.74	6.32	40.29	7.74	38.87
6650.0	5.59	41.08	5.77	40.90	6.22	40.46	7.64	39.04
6700.0	5.61	41.13	5.79	40.95	6.24	40.50	7.66	39.08
6750.0	5.61	41.19	5.79	41.01	6.24	40.57	7.66	39.15
6800.0	5.57	41.30	5.75	41.12	6.20	40.67	7.62	39.25
6850.0	5.47	41.46	5.65	41.28	6.10	40.83	7.52	39.42
6900.0	5.31	41.69	5.49	41.50	5.94	41.06	7.36	39.64
6950.0	5.15	41.91	5.33	41.73	5.78	41.28	7.20	39.86
7000.0	5.04	42.08	5.22	41.90	5.67	41.45	7.09	40.03
7050.0	4.96	42.23	5.14	42.04	5.59	41.59	7.01	40.18
7100.0	4.86	42.39	5.04	42.20	5.49	41.75	6.91	40.34
7150.0	4.76	42.55	4.94	42.36	5.39	41.92	6.81	40.50
7200.0	4.63	42.73	4.81	42.55	5.26	42.11	6.68	40.69
7250.0	4.51	42.92	4.69	42.73	5.14	42.29	6.56	40.87
7300.0	4.44	43.05	4.62	42.86	5.07	42.42	6.49	41.00
7350.0	4.48	43.07	4.66	42.88	5.11	42.44	6.53	41.02
7400.0	4.54	43.06	4.72	42.88	5.17	42.43	6.59	41.02
7450.0	4.59	43.07	4.77	42.89	5.22	42.44	6.64	41.03
7500.0	4.60	43.12	4.78	42.94	5.23	42.49	6.65	41.07
7550.0	4.63	43.15	4.81	42.96	5.26	42.52	6.68	41.10
7600.0	4.65	43.19	4.83	43.00	5.28	42.56	6.70	41.14
7650.0	4.72	43.17	4.90	42.99	5.35	42.54	6.77	41.13
7700.0	4.84	43.11	5.02	42.93	5.47	42.48	6.89	41.06
7750.0	4.87	43.14	5.05	42.95	5.50	42.51	6.92	41.09
7800.0	4.91	43.15	5.09	42.97	5.54	42.52	6.96	41.10
7850.0	4.94	43.18	5.12	42.99	5.57	42.55	6.99	41.13
7900.0	4.95	43.22	5.13	43.04	5.58	42.59	7.00	41.18
7950.0	4.96	43.27	5.14	43.08	5.59	42.64	7.01	41.22
8000.0	5.06	43.22	5.24	43.04	5.69	42.59	7.11	41.17

SCHWARZBECK MESS - ELEKTRONIK

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

USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 Antenna Factor and Gain for short Measuring Distance

Bezugspunkt: Mitte
Reference Point: Center



SCHWARZBECK MESS - ELEKTRONIK

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

USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 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
240.0	1.63	16.20	1.26	16.56	0.47	17.36	-1.48	19.30
250.0	3.40	14.78	3.03	15.14	2.24	15.94	0.29	17.89
260.0	4.14	14.38	3.77	14.75	2.98	15.54	1.03	17.49
270.0	4.65	14.20	4.28	14.56	3.49	15.36	1.54	17.30
280.0	5.14	14.02	4.78	14.38	3.99	15.17	2.06	17.10
290.0	5.49	13.98	5.14	14.33	4.38	15.09	2.51	16.96
300.0	5.72	14.04	5.38	14.38	4.65	15.12	2.83	16.93
320.0	6.21	14.12	5.89	14.43	5.20	15.12	3.48	16.85
340.0	6.51	14.34	6.22	14.63	5.56	15.29	3.94	16.91
360.0	6.25	15.10	5.97	15.37	5.36	15.99	3.81	17.54
380.0	5.82	15.99	5.55	16.26	4.97	16.85	3.47	18.34
400.0	5.21	17.05	4.96	17.30	4.40	17.87	2.96	19.30
420.0	4.89	17.80	4.65	18.03	4.11	18.57	2.75	19.94
440.0	6.03	17.06	5.80	17.29	5.29	17.79	3.99	19.10
460.0	5.97	17.51	5.75	17.72	5.26	18.21	4.00	19.48
480.0	6.07	17.77	5.86	17.98	5.40	18.44	4.20	19.64
500.0	6.29	17.91	6.09	18.11	5.65	18.55	4.49	19.71
520.0	6.29	18.25	6.10	18.44	5.66	18.88	4.53	20.01
540.0	6.21	18.66	6.03	18.84	5.61	19.26	4.52	20.35
560.0	6.19	18.99	6.01	19.17	5.62	19.57	4.57	20.61
580.0	6.29	19.20	6.12	19.37	5.73	19.76	4.71	20.78
600.0	6.48	19.31	6.32	19.47	5.95	19.84	4.97	20.81
620.0	6.58	19.49	6.42	19.65	6.06	20.01	5.11	20.96
640.0	6.58	19.77	6.43	19.92	6.07	20.27	5.14	21.20
660.0	6.55	20.07	6.40	20.21	6.06	20.55	5.15	21.46
680.0	6.68	20.19	6.54	20.33	6.21	20.66	5.35	21.52
700.0	6.89	20.24	6.75	20.37	6.44	20.68	5.60	21.52
720.0	6.89	20.47	6.76	20.61	6.45	20.91	5.64	21.73
740.0	6.79	20.81	6.66	20.95	6.35	21.25	5.54	22.07
760.0	6.66	21.17	6.53	21.31	6.24	21.60	5.45	22.39
780.0	6.46	21.61	6.33	21.73	6.05	22.01	5.28	22.78
800.0	6.35	21.94	6.23	22.05	5.95	22.33	5.21	23.07
820.0	6.28	22.22	6.16	22.33	5.90	22.60	5.18	23.32
840.0	6.34	22.36	6.22	22.48	5.96	22.75	5.24	23.47
860.0	6.56	22.35	6.45	22.46	6.19	22.72	5.50	23.41
880.0	6.87	22.24	6.76	22.35	6.52	22.59	5.85	23.26
900.0	7.18	22.12	7.07	22.23	6.83	22.48	6.16	23.15
920.0	7.30	22.20	7.20	22.30	6.96	22.54	6.32	23.18
940.0	7.21	22.47	7.11	22.58	6.87	22.81	6.23	23.46
960.0	6.98	22.89	6.88	22.98	6.65	23.21	6.03	23.83
980.0	6.80	23.24	6.70	23.34	6.49	23.56	5.89	24.15
1000.0	6.75	23.47	6.65	23.57	6.44	23.78	5.84	24.38
1050.0	6.96	23.69	6.87	23.77	6.66	23.98	6.09	24.55
1100.0	6.70	24.35	6.61	24.43	6.42	24.63	5.87	25.18
1150.0	6.61	24.83	6.53	24.91	6.34	25.09	5.82	25.61
1200.0	6.52	25.28	6.44	25.36	6.26	25.54	5.77	26.03
1250.0	6.57	25.59	6.50	25.66	6.33	25.83	5.86	26.30
1300.0	6.95	25.55	6.88	25.62	6.72	25.78	6.28	26.22

SCHWARZBECK MESS - ELEKTRONIK

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

USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 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	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
1350.0	6.93	25.90	6.86	25.97	6.70	26.13	6.26	26.57
1400.0	6.73	26.42	6.67	26.48	6.52	26.63	6.10	27.04
1450.0	6.62	26.83	6.56	26.89	6.42	27.03	6.03	27.42
1500.0	6.60	27.14	6.54	27.20	6.40	27.34	6.01	27.73
1550.0	6.77	27.26	6.71	27.31	6.58	27.44	6.22	27.80
1600.0	6.91	27.39	6.85	27.45	6.72	27.58	6.36	27.94
1650.0	6.68	27.89	6.63	27.94	6.51	28.06	6.17	28.40
1700.0	6.29	28.54	6.24	28.59	6.12	28.71	5.78	29.05
1750.0	6.19	28.89	6.14	28.94	6.02	29.06	5.68	29.40
1800.0	6.34	28.99	6.29	29.03	6.18	29.14	5.87	29.45
1850.0	6.67	28.89	6.62	28.94	6.51	29.05	6.20	29.36
1900.0	6.87	28.93	6.83	28.97	6.73	29.07	6.45	29.35
1950.0	6.56	29.46	6.52	29.50	6.42	29.60	6.14	29.88
2000.0	6.15	30.09	6.11	30.13	6.01	30.23	5.73	30.51
2050.0	5.72	30.73	5.68	30.78	5.58	30.88	5.30	31.16
2100.0	5.67	30.99	5.63	31.03	5.54	31.12	5.29	31.38
2150.0	5.81	31.06	5.77	31.10	5.68	31.19	5.43	31.44
2200.0	6.04	31.03	6.00	31.07	5.91	31.16	5.66	31.41
2250.0	6.22	31.04	6.19	31.08	6.10	31.16	5.88	31.38
2300.0	6.17	31.29	6.14	31.32	6.05	31.40	5.83	31.63
2350.0	5.69	31.95	5.66	31.99	5.57	32.07	5.35	32.29
2400.0	5.34	32.48	5.31	32.52	5.22	32.60	5.00	32.82
2450.0	5.23	32.77	5.20	32.81	5.11	32.89	4.89	33.11
2500.0	5.32	32.86	5.29	32.89	5.22	32.96	5.02	33.16
2550.0	5.51	32.84	5.48	32.87	5.41	32.94	5.21	33.14
2600.0	5.67	32.85	5.64	32.88	5.57	32.95	5.37	33.15
2650.0	5.78	32.91	5.75	32.94	5.68	33.01	5.48	33.20
2700.0	5.85	33.00	5.82	33.03	5.75	33.10	5.55	33.30
2750.0	5.87	33.14	5.84	33.16	5.78	33.22	5.61	33.39
2800.0	5.83	33.33	5.80	33.36	5.74	33.42	5.57	33.59
2850.0	5.80	33.52	5.77	33.54	5.71	33.60	5.54	33.77
2900.0	5.71	33.76	5.68	33.78	5.62	33.84	5.45	34.01
2950.0	5.66	33.96	5.63	33.98	5.57	34.04	5.40	34.21
3000.0	5.63	34.13	5.60	34.16	5.54	34.22	5.37	34.39
3050.0	5.64	34.26	5.61	34.29	5.55	34.35	5.38	34.52
3100.0	5.67	34.38	5.65	34.40	5.60	34.45	5.46	34.59
3150.0	5.67	34.51	5.65	34.54	5.60	34.59	5.46	34.73
3200.0	5.64	34.68	5.62	34.70	5.57	34.76	5.43	34.90
3250.0	5.61	34.85	5.59	34.87	5.54	34.92	5.40	35.06
3300.0	5.57	35.02	5.55	35.04	5.50	35.09	5.36	35.23
3350.0	5.51	35.21	5.49	35.23	5.44	35.28	5.30	35.43
3400.0	5.44	35.41	5.42	35.43	5.37	35.48	5.23	35.62
3450.0	5.28	35.70	5.26	35.72	5.21	35.77	5.07	35.91
3500.0	5.16	35.94	5.14	35.96	5.09	36.01	4.95	36.16
3550.0	5.04	36.18	5.02	36.20	4.98	36.24	4.87	36.36
3600.0	4.97	36.38	4.95	36.39	4.91	36.43	4.80	36.55
3650.0	4.97	36.50	4.95	36.51	4.91	36.55	4.80	36.67
3700.0	5.00	36.58	4.98	36.60	4.94	36.64	4.83	36.76
3750.0	5.05	36.65	5.03	36.67	4.99	36.71	4.88	36.82
3800.0	5.08	36.73	5.06	36.75	5.02	36.79	4.91	36.91
3850.0	5.08	36.85	5.06	36.87	5.02	36.91	4.91	37.02

SCHWARZBECK MESS - ELEKTRONIK

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

USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 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	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
3900.0	5.07	36.97	5.05	36.99	5.01	37.03	4.90	37.14
3950.0	5.06	37.09	5.04	37.11	5.00	37.15	4.89	37.26
4000.0	5.01	37.25	4.99	37.27	4.95	37.31	4.84	37.42
4050.0	4.93	37.44	4.91	37.46	4.87	37.50	4.76	37.61
4100.0	4.93	37.54	4.91	37.56	4.87	37.60	4.76	37.72
4150.0	4.89	37.69	4.88	37.70	4.85	37.73	4.76	37.82
4200.0	4.92	37.77	4.91	37.78	4.88	37.81	4.79	37.89
4250.0	5.00	37.78	4.99	37.80	4.96	37.83	4.87	37.92
4300.0	5.19	37.69	5.18	37.71	5.15	37.74	5.06	37.83
4350.0	5.39	37.60	5.38	37.61	5.35	37.64	5.26	37.73
4400.0	5.53	37.56	5.52	37.57	5.49	37.60	5.40	37.69
4450.0	5.71	37.48	5.70	37.49	5.67	37.52	5.58	37.61
4500.0	5.82	37.46	5.81	37.48	5.78	37.51	5.69	37.59
4550.0	5.88	37.50	5.87	37.51	5.84	37.54	5.75	37.63
4600.0	5.87	37.60	5.86	37.62	5.83	37.65	5.74	37.73
4650.0	5.86	37.71	5.85	37.72	5.82	37.75	5.73	37.84
4700.0	5.71	37.95	5.70	37.96	5.67	38.00	5.58	38.08
4750.0	5.64	38.11	5.63	38.13	5.60	38.16	5.51	38.24
4800.0	5.42	38.43	5.41	38.44	5.38	38.47	5.29	38.55
4850.0	5.31	38.62	5.30	38.64	5.27	38.67	5.18	38.75
4900.0	5.07	38.95	5.06	38.97	5.03	39.00	4.94	39.08
4950.0	4.98	39.13	4.97	39.15	4.94	39.18	4.85	39.26
5000.0	4.78	39.42	4.77	39.43	4.75	39.45	4.69	39.51
5050.0	4.72	39.57	4.71	39.57	4.69	39.59	4.63	39.65
5100.0	4.62	39.75	4.61	39.76	4.59	39.78	4.53	39.84
5150.0	4.64	39.82	4.63	39.82	4.61	39.85	4.55	39.90
5200.0	4.68	39.86	4.67	39.87	4.65	39.89	4.59	39.95
5250.0	4.78	39.85	4.77	39.85	4.75	39.87	4.69	39.93
5300.0	4.90	39.81	4.89	39.81	4.87	39.83	4.81	39.89
5350.0	5.00	39.78	4.99	39.80	4.97	39.82	4.91	39.87
5400.0	5.24	39.63	5.23	39.64	5.21	39.66	5.15	39.71
5450.0	5.38	39.56	5.37	39.58	5.35	39.60	5.29	39.65
5500.0	5.49	39.54	5.48	39.55	5.46	39.57	5.40	39.62
5550.0	5.61	39.50	5.60	39.50	5.58	39.52	5.52	39.58
5600.0	5.66	39.52	5.65	39.53	5.63	39.55	5.57	39.61
5650.0	5.69	39.57	5.68	39.58	5.66	39.60	5.60	39.66
5700.0	5.70	39.64	5.69	39.65	5.67	39.67	5.61	39.72
5750.0	5.62	39.79	5.61	39.80	5.59	39.82	5.53	39.88
5800.0	5.57	39.92	5.56	39.93	5.54	39.95	5.48	40.00
5850.0	5.53	40.04	5.52	40.04	5.50	40.06	5.44	40.12
5900.0	5.48	40.16	5.47	40.17	5.45	40.19	5.39	40.24
5950.0	5.39	40.32	5.38	40.33	5.36	40.35	5.30	40.41
6000.0	5.39	40.39	5.38	40.40	5.36	40.42	5.30	40.48
6050.0	5.43	40.42	5.42	40.43	5.40	40.45	5.34	40.51
6100.0	5.46	40.47	5.45	40.48	5.43	40.50	5.37	40.55
6150.0	5.48	40.51	5.47	40.53	5.45	40.55	5.39	40.60
6200.0	5.52	40.55	5.51	40.56	5.49	40.58	5.43	40.63
6250.0	5.56	40.58	5.55	40.59	5.53	40.61	5.47	40.66
6300.0	5.60	40.60	5.60	40.61	5.59	40.62	5.56	40.65
6350.0	5.62	40.65	5.62	40.66	5.61	40.67	5.58	40.70
6400.0	5.63	40.71	5.63	40.72	5.62	40.73	5.59	40.76

SCHWARZBECK MESS - ELEKTRONIK

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USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 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	dBi	dB/m	dBi	dB/m	dBi	dB/m	dBi	dB/m
6450.0	5.67	40.74	5.67	40.75	5.66	40.76	5.63	40.78
6500.0	5.70	40.78	5.70	40.78	5.69	40.79	5.66	40.82
6550.0	5.70	40.84	5.70	40.85	5.69	40.86	5.66	40.89
6600.0	5.68	40.93	5.68	40.94	5.67	40.95	5.64	40.97
6650.0	5.58	41.09	5.58	41.10	5.57	41.11	5.54	41.14
6700.0	5.61	41.13	5.61	41.14	5.60	41.15	5.57	41.17
6750.0	5.61	41.20	5.61	41.20	5.60	41.21	5.57	41.24
6800.0	5.57	41.30	5.57	41.30	5.56	41.31	5.53	41.34
6850.0	5.47	41.47	5.47	41.47	5.46	41.48	5.43	41.51
6900.0	5.30	41.69	5.30	41.70	5.29	41.71	5.26	41.74
6950.0	5.15	41.91	5.15	41.91	5.14	41.92	5.11	41.95
7000.0	5.04	42.08	5.04	42.09	5.03	42.10	5.00	42.13
7050.0	4.95	42.23	4.95	42.24	4.94	42.25	4.91	42.28
7100.0	4.86	42.39	4.86	42.39	4.85	42.40	4.82	42.43
7150.0	4.74	42.56	4.74	42.57	4.73	42.58	4.70	42.61
7200.0	4.62	42.74	4.62	42.75	4.61	42.76	4.58	42.79
7250.0	4.51	42.92	4.51	42.92	4.50	42.93	4.47	42.96
7300.0	4.44	43.05	4.44	43.05	4.43	43.06	4.40	43.09
7350.0	4.48	43.07	4.48	43.07	4.47	43.08	4.44	43.11
7400.0	4.54	43.07	4.54	43.07	4.53	43.08	4.50	43.11
7450.0	4.58	43.08	4.58	43.09	4.57	43.10	4.54	43.13
7500.0	4.60	43.12	4.60	43.13	4.59	43.14	4.56	43.16
7550.0	4.63	43.14	4.63	43.15	4.62	43.16	4.59	43.19
7600.0	4.65	43.19	4.65	43.19	4.64	43.20	4.61	43.23
7650.0	4.72	43.17	4.72	43.18	4.71	43.19	4.68	43.22
7700.0	4.84	43.11	4.84	43.11	4.83	43.12	4.80	43.15
7750.0	4.87	43.13	4.87	43.14	4.86	43.15	4.83	43.18
7800.0	4.91	43.15	4.91	43.16	4.90	43.17	4.87	43.20
7850.0	4.94	43.18	4.94	43.18	4.93	43.19	4.90	43.22
7900.0	4.95	43.22	4.95	43.23	4.94	43.24	4.91	43.27
7950.0	4.96	43.27	4.96	43.27	4.95	43.28	4.92	43.31
8000.0	5.05	43.23	5.05	43.24	5.04	43.25	5.01	43.28

SCHWARZBECK MESS - ELEKTRONIK

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USLP 9143 Antennen-Wandlungsmaß und Gewinn für kurze Messentfernung USLP 9143 Antenna Factor and Gain for short Measuring Distance

Bezugspunkt: Spitze
Reference Point: Tip

