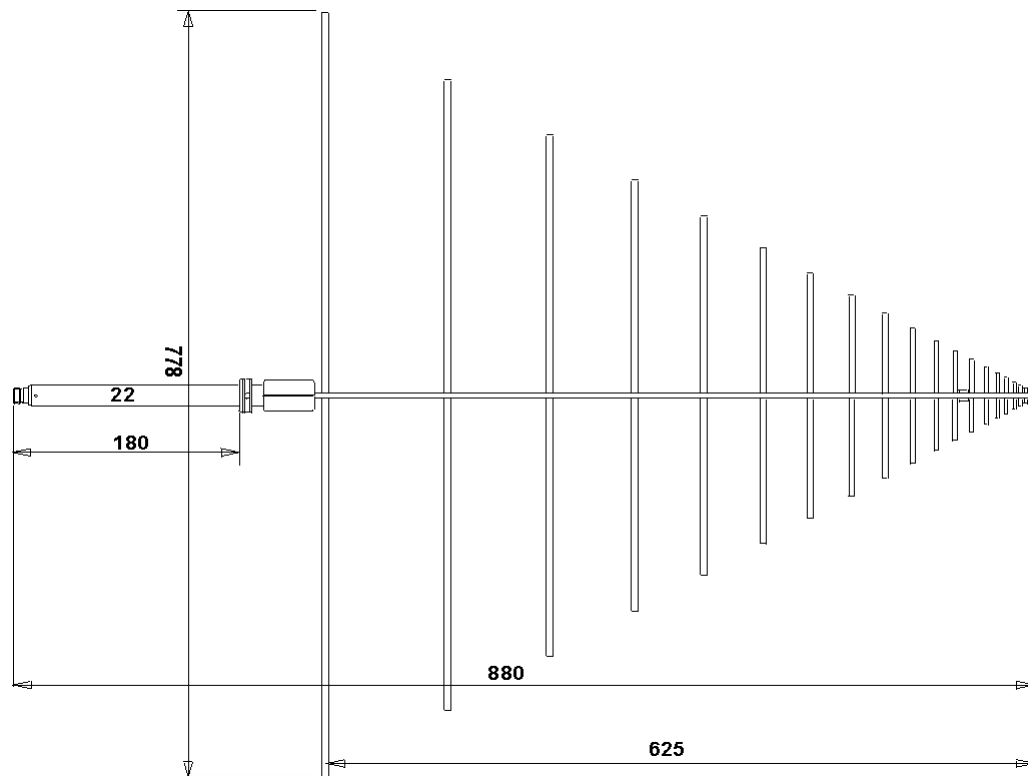


SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne USLP 9143B Log. - Per. Broadband Antenna USLP 9143B



Technische Daten:

Bauart:
Linear polarisierte Logarithmisch
Periodische Breitbandantenne in
Aluminiumausführung für Empfangs-
und Sendeanwendungen.

Frequenzbereich, nominell: 200 MHz...7 GHz
Nutzbarer Frequenzbereich: 180 MHz ... 8 GHz
Isotropgewinn: typ. 5.8 dBi + / - 1.3 dB
Antennenfaktor: 11 ... 44 dB/m
Impedanz, nominell: 50 Ω
Stehwellenverhältnis SWR typisch: < 1.5
Vor- Rückverhältnis: >25 dB (> 500 MHz)
Polarisationsentkopplung: >20 dB (180 MHz...2.5 GHz)
3 dB Öffnungswinkel typ.(E-Ebene): 45°-65°
3 dB Öffnungswinkel typ.(H-Ebene): 90°-120°
Max. Eingangsleistung: 200 W (<500 MHz)
80 W (5 GHz)
50 W (7 GHz)

Anschlußart: N-Buchse
Halterung: 22 mm Rohr, Rastring
Breite x Länge x Dicke:
Gewicht:

USLP 9143B

778 x 885 x 60 mm
1.2 kg

Specifications:

Type:
*Linear polarized Logarithmic Periodic
Broadband Antenna (Aluminium tubing)
for Receive and Transmit Applications.*

Nominal Frequency Range:
Usable Frequency Range:
Isotropic Gain:
Antenna Factor:
Nominal Impedance:
Standing Wave Ratio SWR typical:
Front to Back Ratio:
Cross Polarisation:
3 dB Beamwidth typ. (E-Plane):
3 dB Beamwidth typ. (H-Plane):
Max. Input Power:

N-Connector female
Mount: 22 mm Tube, Indexing Ring
Width x Length x Thickness:
Weight:

SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne USLP 9143B

Log. - Per. Broadband Antenna USLP 9143B

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m
160.00	2.64	1.875	22.58	1.19	-0.96	13.11
180.00	2.64	1.667	19.45	3.27	1.12	12.06
200.00	2.58	1.500	16.98	4.85	2.70	11.39
220.00	2.47	1.364	16.10	5.52	3.37	11.54
240.00	2.38	1.250	15.71	5.93	3.78	11.89
260.00	2.30	1.154	15.80	6.09	3.94	12.43
280.00	2.24	1.071	16.41	5.99	3.84	13.18
300.00	2.18	1.000	17.15	5.81	3.66	13.96
320.00	2.13	0.938	17.47	5.83	3.68	14.49
340.00	2.09	0.882	17.86	5.80	3.65	15.05
360.00	2.05	0.833	18.04	5.89	3.73	15.46
380.00	2.02	0.789	17.85	6.14	3.99	15.68
400.00	1.99	0.750	17.95	6.25	4.09	16.02
420.00	1.96	0.714	18.15	6.29	4.14	16.39
440.00	1.93	0.682	18.18	6.42	4.27	16.66
460.00	1.91	0.652	18.12	6.59	4.44	16.88
480.00	1.89	0.625	18.39	6.59	4.44	17.25
500.00	1.87	0.600	18.62	6.61	4.46	17.59
520.00	1.85	0.577	18.86	6.62	4.47	17.92
540.00	1.83	0.556	19.20	6.58	4.42	18.29
560.00	1.82	0.536	19.65	6.47	4.32	18.71
580.00	1.80	0.517	19.69	6.57	4.42	18.92
600.00	1.79	0.500	19.67	6.69	4.54	19.09
620.00	1.77	0.484	19.68	6.80	4.64	19.27
640.00	1.76	0.469	19.78	6.85	4.70	19.49
660.00	1.75	0.455	19.85	6.92	4.77	19.69
680.00	1.74	0.441	20.01	6.95	4.80	19.92
700.00	1.73	0.429	20.25	6.93	4.78	20.19
720.00	1.72	0.417	20.48	6.91	4.76	20.46
740.00	1.71	0.405	20.70	6.90	4.75	20.70
760.00	1.70	0.395	21.07	6.81	4.66	21.03
780.00	1.70	0.385	21.63	6.62	4.47	21.44
800.00	1.69	0.375	22.16	6.45	4.30	21.83
820.00	1.68	0.366	22.45	6.39	4.24	22.11
840.00	1.67	0.357	22.51	6.45	4.30	22.26
860.00	1.67	0.349	22.42	6.58	4.43	22.33
880.00	1.66	0.341	22.22	6.76	4.61	22.35
900.00	1.66	0.333	22.10	6.90	4.75	22.40
920.00	1.65	0.326	22.11	6.98	4.83	22.52
940.00	1.64	0.319	22.36	6.93	4.78	22.75
960.00	1.64	0.313	22.77	6.81	4.65	23.06
980.00	1.63	0.306	23.28	6.63	4.48	23.42
1000.00	1.63	0.300	23.74	6.47	4.32	23.75
1020.00	1.62	0.294	24.02	6.41	4.25	23.99
1040.00	1.62	0.288	23.95	6.51	4.36	24.05
1060.00	1.62	0.283	23.72	6.70	4.55	24.03
1080.00	1.61	0.278	23.44	6.91	4.76	23.98
1100.00	1.61	0.273	23.23	7.08	4.93	23.96
1120.00	1.60	0.268	23.25	7.14	4.99	24.06
1140.00	1.60	0.263	23.57	7.05	4.90	24.31
1160.00	1.60	0.259	24.05	6.87	4.72	24.64

SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne USLP 9143B

Log. - Per. Broadband Antenna USLP 9143B

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m
1180.00	1.59	0.254	24.59	6.67	4.52	24.99
1200.00	1.59	0.250	25.13	6.46	4.31	25.34
1220.00	1.59	0.246	25.48	6.35	4.20	25.60
1240.00	1.58	0.242	25.67	6.32	4.17	25.77
1260.00	1.58	0.238	25.63	6.40	4.25	25.83
1280.00	1.58	0.234	25.36	6.59	4.44	25.77
1300.00	1.57	0.231	24.97	6.85	4.70	25.65
1320.00	1.57	0.227	24.73	7.03	4.88	25.60
1340.00	1.57	0.224	24.70	7.10	4.95	25.66
1360.00	1.57	0.221	24.89	7.06	4.91	25.83
1380.00	1.56	0.217	25.21	6.96	4.81	26.06
1400.00	1.56	0.214	25.62	6.81	4.66	26.34
1420.00	1.56	0.211	26.01	6.67	4.52	26.60
1440.00	1.56	0.208	26.24	6.61	4.46	26.78
1460.00	1.55	0.205	26.43	6.57	4.42	26.94
1480.00	1.55	0.203	26.62	6.52	4.37	27.10
1500.00	1.55	0.200	26.76	6.51	4.35	27.24
1520.00	1.55	0.197	26.77	6.55	4.40	27.30
1540.00	1.55	0.195	26.69	6.65	4.49	27.33
1560.00	1.54	0.192	26.54	6.77	4.62	27.31
1580.00	1.54	0.190	26.45	6.86	4.71	27.33
1600.00	1.54	0.188	26.54	6.87	4.72	27.43
1620.00	1.54	0.185	26.79	6.79	4.64	27.62
1640.00	1.54	0.183	27.17	6.65	4.50	27.86
1660.00	1.54	0.181	27.58	6.50	4.34	28.13
1680.00	1.53	0.179	27.96	6.35	4.20	28.37
1700.00	1.53	0.176	28.18	6.29	4.13	28.54
1720.00	1.53	0.174	28.29	6.28	4.13	28.65
1740.00	1.53	0.172	28.33	6.30	4.15	28.73
1760.00	1.53	0.170	28.38	6.33	4.17	28.80
1780.00	1.53	0.169	28.36	6.38	4.23	28.85
1800.00	1.52	0.167	28.30	6.45	4.30	28.87
1820.00	1.52	0.165	28.22	6.54	4.39	28.88
1840.00	1.52	0.163	28.15	6.62	4.47	28.90
1860.00	1.52	0.161	28.12	6.67	4.52	28.94
1880.00	1.52	0.160	28.15	6.70	4.55	29.00
1900.00	1.52	0.158	28.18	6.73	4.58	29.07
1920.00	1.52	0.156	28.28	6.72	4.57	29.16
1940.00	1.51	0.155	28.47	6.67	4.51	29.31
1960.00	1.51	0.153	28.77	6.56	4.41	29.51
1980.00	1.51	0.152	29.15	6.41	4.26	29.75
2000.00	1.51	0.150	29.57	6.24	4.09	30.00
2020.00	1.51	0.149	29.96	6.08	3.93	30.24
2040.00	1.51	0.147	30.24	5.99	3.83	30.43
2060.00	1.51	0.146	30.39	5.95	3.80	30.55
2080.00	1.51	0.144	30.44	5.96	3.81	30.62
2100.00	1.51	0.143	30.47	5.98	3.83	30.68
2120.00	1.50	0.142	30.48	6.02	3.87	30.73
2140.00	1.50	0.140	30.52	6.04	3.89	30.79
2160.00	1.50	0.139	30.53	6.07	3.92	30.84
2180.00	1.50	0.138	30.54	6.10	3.95	30.89
2200.00	1.50	0.136	30.55	6.13	3.98	30.94

SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne USLP 9143B

Log. - Per. Broadband Antenna USLP 9143B

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m
2220.00	1.50	0.135	30.55	6.17	4.02	30.98
2240.00	1.50	0.134	30.56	6.20	4.05	31.03
2260.00	1.50	0.133	30.56	6.23	4.08	31.07
2280.00	1.50	0.132	30.61	6.25	4.10	31.13
2300.00	1.50	0.130	30.73	6.22	4.07	31.23
2320.00	1.49	0.129	30.96	6.14	3.99	31.39
2340.00	1.49	0.128	31.23	6.04	3.89	31.56
2360.00	1.49	0.127	31.57	5.90	3.75	31.77
2380.00	1.49	0.126	31.90	5.78	3.62	31.98
2400.00	1.49	0.125	32.19	5.67	3.52	32.16
2420.00	1.49	0.124	32.45	5.57	3.42	32.33
2440.00	1.49	0.123	32.63	5.51	3.36	32.46
2460.00	1.49	0.122	32.71	5.50	3.35	32.54
2480.00	1.49	0.121	32.79	5.50	3.35	32.61
2500.00	1.49	0.120	32.85	5.50	3.35	32.68
2520.00	1.49	0.119	32.88	5.52	3.37	32.73
2540.00	1.49	0.118	32.91	5.53	3.38	32.78
2560.00	1.49	0.117	32.92	5.56	3.41	32.82
2580.00	1.48	0.116	32.92	5.59	3.44	32.86
2600.00	1.48	0.115	32.88	5.64	3.49	32.87
2620.00	1.48	0.115	32.84	5.70	3.55	32.89
2640.00	1.48	0.114	32.81	5.74	3.59	32.91
2660.00	1.48	0.113	32.82	5.77	3.62	32.95
2680.00	1.48	0.112	32.79	5.81	3.66	32.97
2700.00	1.48	0.111	32.77	5.85	3.70	32.99
2720.00	1.48	0.110	32.75	5.89	3.74	33.02
2740.00	1.48	0.109	32.74	5.93	3.78	33.05
2760.00	1.48	0.109	32.72	5.97	3.82	33.07
2780.00	1.48	0.108	32.77	5.97	3.82	33.13
2800.00	1.48	0.107	32.84	5.97	3.82	33.20
2820.00	1.48	0.106	32.86	5.99	3.84	33.24
2840.00	1.48	0.106	32.95	5.97	3.82	33.31
2860.00	1.48	0.105	33.09	5.93	3.78	33.42
2880.00	1.47	0.104	33.25	5.88	3.73	33.53
2900.00	1.47	0.103	33.43	5.81	3.66	33.65
2920.00	1.47	0.103	33.61	5.76	3.60	33.77
2940.00	1.47	0.102	33.71	5.73	3.58	33.85
2960.00	1.47	0.101	33.77	5.73	3.58	33.91
2980.00	1.47	0.101	33.84	5.72	3.57	33.98
3000.00	1.47	0.100	33.87	5.74	3.59	34.03
3100.00	1.47	0.097	34.10	5.75	3.60	34.29
3200.00	1.47	0.094	34.43	5.72	3.57	34.60
3300.00	1.46	0.091	34.72	5.70	3.55	34.89
3400.00	1.46	0.088	35.17	5.60	3.45	35.25
3500.00	1.46	0.086	36.03	5.29	3.14	35.81
3600.00	1.46	0.083	36.46	5.19	3.04	36.15
3700.00	1.46	0.081	36.97	5.05	2.90	36.53
3800.00	1.45	0.079	37.34	4.98	2.83	36.84
3900.00	1.45	0.077	37.26	5.13	2.98	36.91
4000.00	1.45	0.075	37.61	5.05	2.90	37.21
4100.00	1.45	0.073	38.14	4.89	2.74	37.58
4200.00	1.45	0.071	38.56	4.78	2.63	37.90

SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne USLP 9143B

Log. - Per. Broadband Antenna USLP 9143B

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m
4300.00	1.45	0.070	38.22	5.05	2.90	37.84
4400.00	1.45	0.068	37.72	5.40	3.25	37.69
4500.00	1.45	0.067	37.61	5.55	3.40	37.74
4600.00	1.44	0.065	37.33	5.78	3.63	37.70
4700.00	1.44	0.064	37.88	5.59	3.44	38.07
4800.00	1.44	0.063	38.92	5.16	3.01	38.68
4900.00	1.44	0.061	39.62	4.90	2.75	39.12
5000.00	1.44	0.060	40.44	4.57	2.42	39.63
5100.00	1.44	0.059	41.00	4.38	2.22	40.00
5200.00	1.44	0.058	40.97	4.48	2.32	40.06
5300.00	1.44	0.057	41.10	4.49	2.34	40.22
5400.00	1.44	0.056	40.55	4.84	2.69	40.02
5500.00	1.44	0.055	39.69	5.35	3.20	39.67
5600.00	1.43	0.054	39.95	5.29	3.14	39.89
5700.00	1.43	0.053	40.07	5.31	3.16	40.03
5800.00	1.43	0.052	40.49	5.17	3.02	40.32
5900.00	1.43	0.051	40.83	5.07	2.92	40.56
6000.00	1.43	0.050	41.32	4.90	2.75	40.88
6100.00	1.43	0.049	41.39	4.94	2.79	40.99
6200.00	1.43	0.048	41.03	5.19	3.04	40.88
6300.00	1.43	0.048	40.99	5.27	3.12	40.94
6400.00	1.43	0.047	41.02	5.32	3.17	41.02
6500.00	1.43	0.046	41.13	5.33	3.18	41.14
6600.00	1.43	0.045	40.86	5.54	3.39	41.07
6700.00	1.43	0.045	41.33	5.36	3.21	41.38
6800.00	1.43	0.044	41.66	5.26	3.11	41.61
6900.00	1.43	0.043	42.10	5.10	2.95	41.90
7000.00	1.43	0.043	42.27	5.08	2.93	42.04
7100.00	1.43	0.042	43.30	4.63	2.48	42.62
7200.00	1.43	0.042	43.99	4.34	2.19	43.03
7300.00	1.43	0.041	43.82	4.48	2.33	43.00
7400.00	1.42	0.041	43.71	4.59	2.44	43.01
7500.00	1.42	0.040	43.76	4.63	2.48	43.09
7600.00	1.42	0.039	43.66	4.73	2.58	43.10
7700.00	1.42	0.039	43.68	4.78	2.63	43.17
7800.00	1.42	0.038	43.47	4.94	2.79	43.12
7900.00	1.42	0.038	43.76	4.85	2.70	43.32
8000.00	1.42	0.038	43.56	5.00	2.85	43.28
8100.00	1.42	0.037	44.83	4.42	2.27	43.97

SCHWARZBECK MESS - ELEKTRONIK

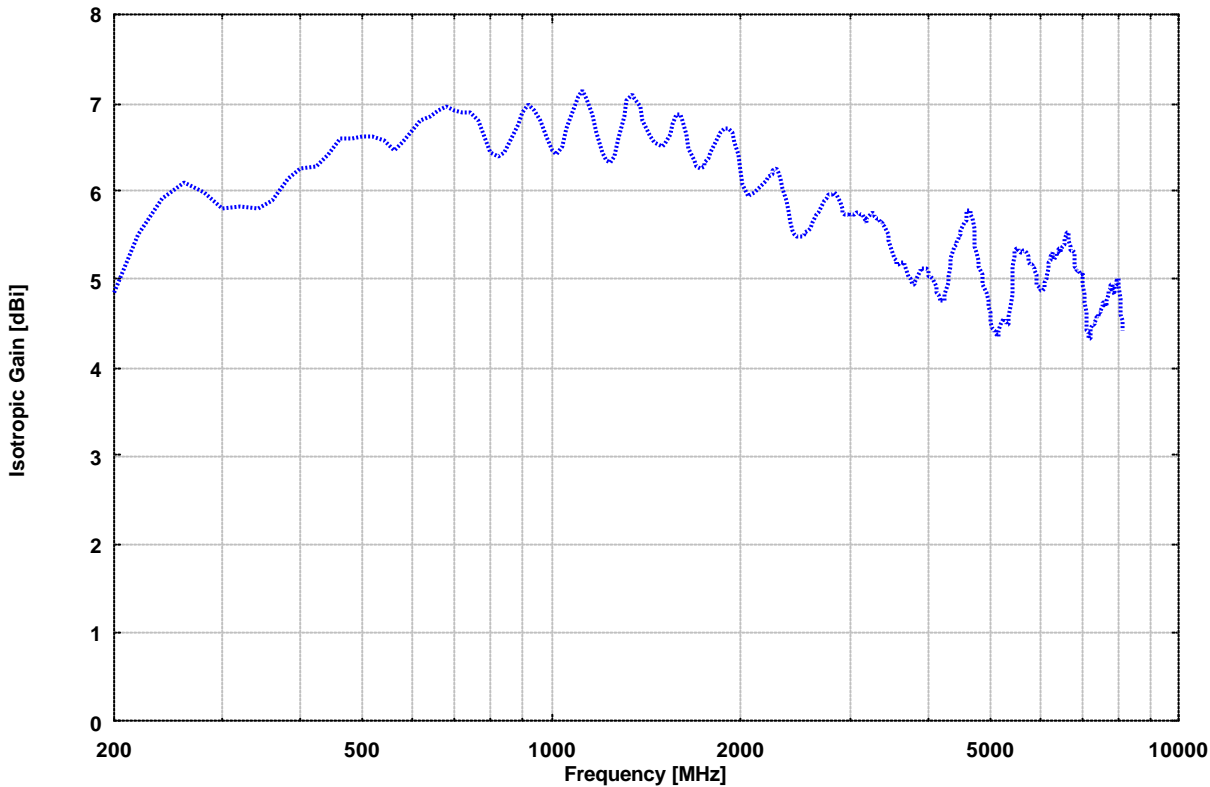
An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

Log. - Per. Breitband-Antenne USLP 9143B

Log. - Per. Broadband Antenna USLP 9143B

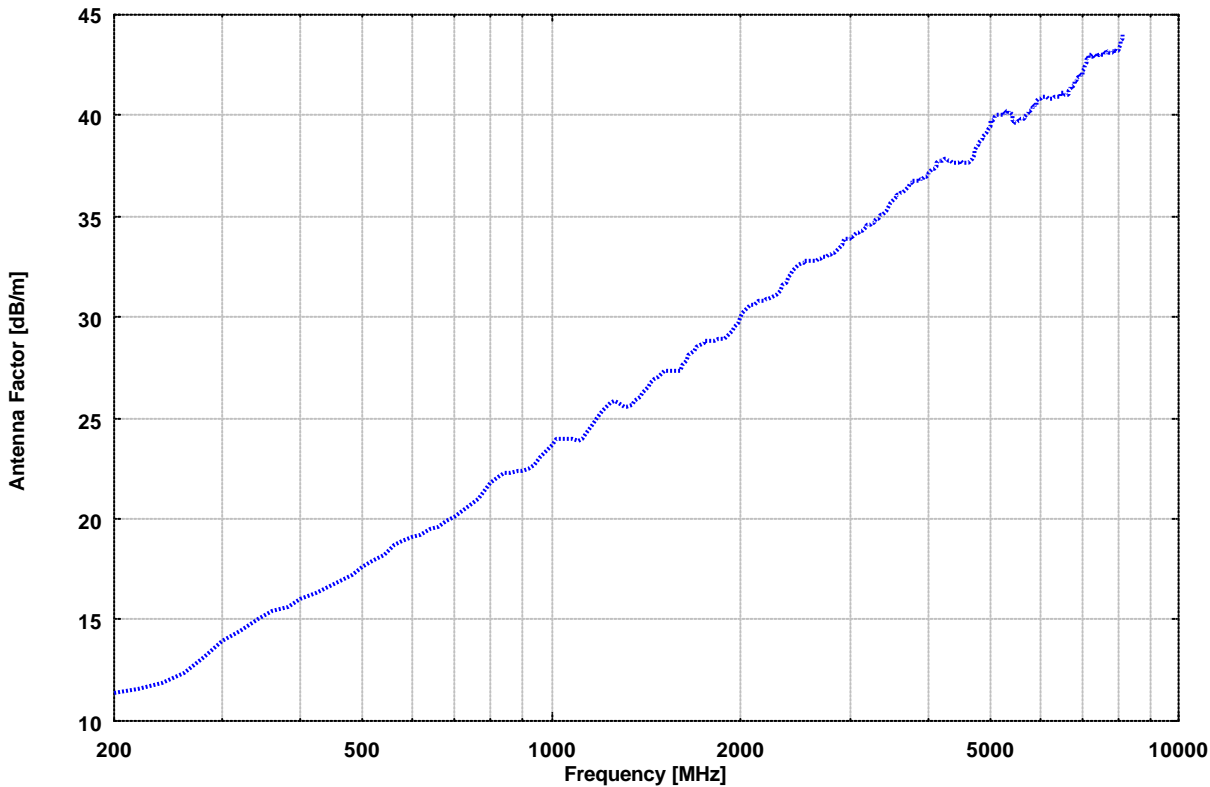
Gewinn bezogen auf Isotropstrahler:

USLP 9143 B



Antennenfaktor (k-Faktor):

USLP 9143 B

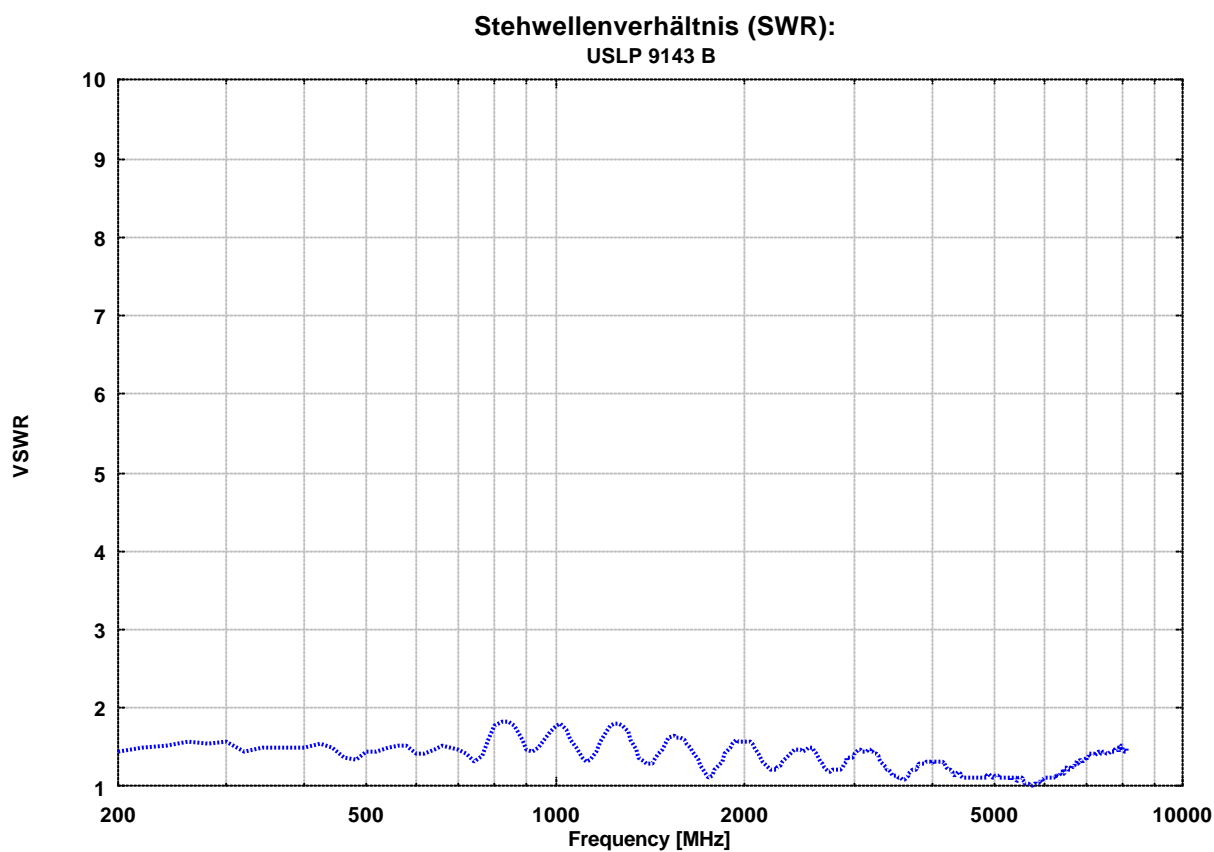


SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne USLP 9143B

Log. - Per. Broadband Antenna USLP 9143B



SCHWARZBECK MESS - ELEKTRONIK

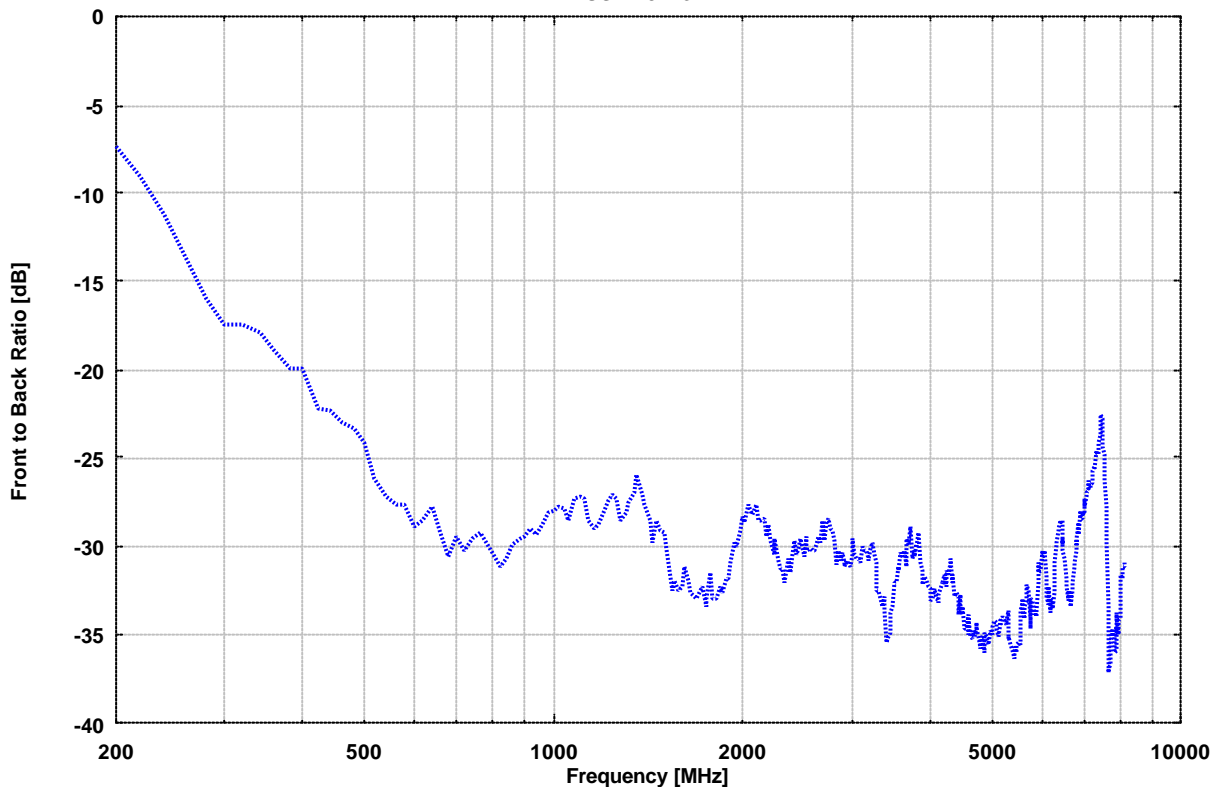
An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

Log. - Per. Breitband-Antenne USLP 9143B

Log. - Per. Broadband Antenna USLP 9143B

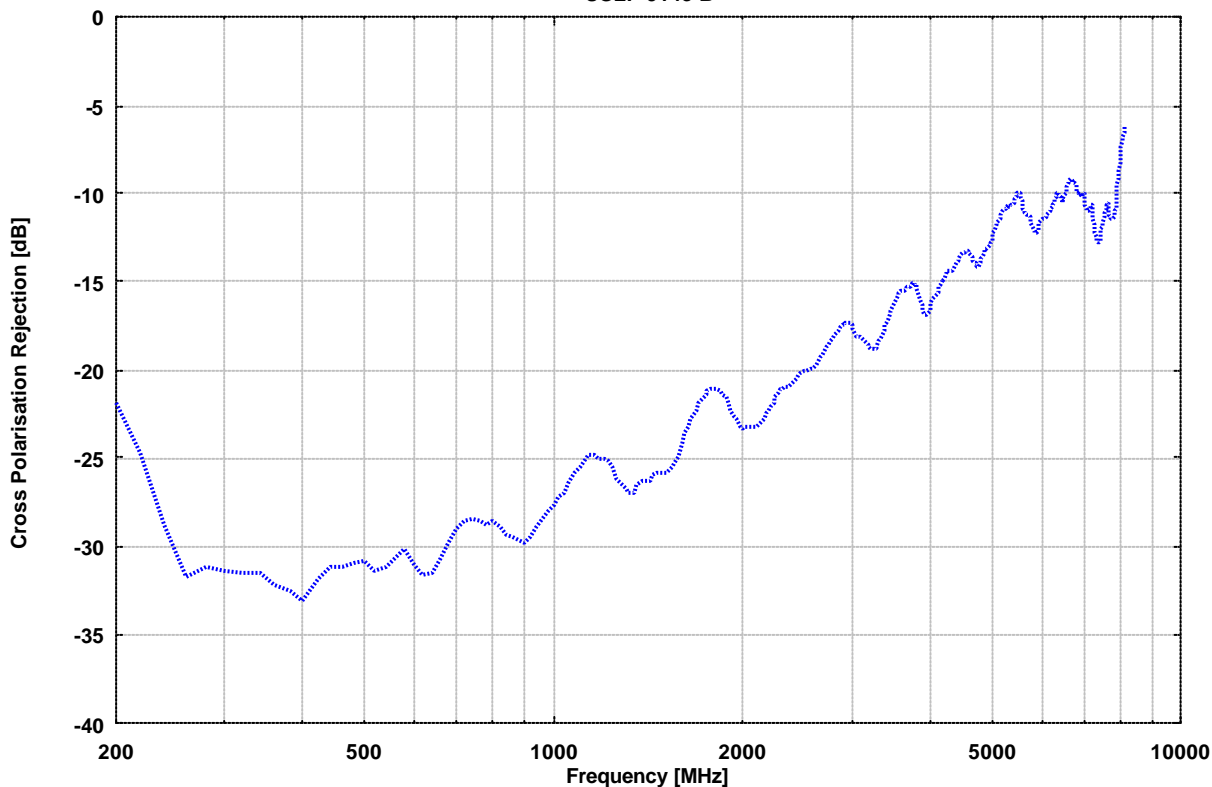
Vor- Rückverhältnis:

USLP 9143 B



Kreuzpolarisation, Polarisationsentkopplung:

USLP 9143 B



SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne USLP 9143B

Log. - Per. Broadband Antenna USLP 9143B

Korrekturdaten für kurze Messentfernung (Antennenspitze-Prüfling) 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)
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
180.0	3.27	12.06	2.74	12.58	1.63	13.70	-0.95	16.27
200.0	4.85	11.39	4.35	11.89	3.28	12.96	0.79	15.45
220.0	5.52	11.54	5.06	12.01	4.08	12.99	1.77	15.30
240.0	5.93	11.89	5.51	12.31	4.60	13.22	2.44	15.39
260.0	6.09	12.43	5.70	12.82	4.86	13.66	2.83	15.69
280.0	5.99	13.18	5.63	13.53	4.84	14.32	2.91	16.25
300.0	5.81	13.96	5.47	14.29	4.74	15.03	2.92	16.84
320.0	5.83	14.49	5.51	14.81	4.82	15.50	3.10	17.23
340.0	5.80	15.05	5.50	15.35	4.84	16.01	3.19	17.66
360.0	5.89	15.46	5.61	15.74	4.98	16.36	3.41	17.93
380.0	6.14	15.68	5.87	15.95	5.27	16.54	3.76	18.05
400.0	6.25	16.02	5.99	16.27	5.42	16.84	3.97	18.29
500.0	6.61	17.59	6.40	17.80	5.94	18.26	4.74	19.46
600.0	6.69	19.09	6.52	19.27	6.13	19.65	5.11	20.68
700.0	6.93	20.19	6.78	20.34	6.45	20.67	5.57	21.56
800.0	6.45	21.83	6.32	21.96	6.03	22.26	5.24	23.05
900.0	6.90	22.40	6.78	22.52	6.52	22.79	5.80	23.50
1000.0	6.47	23.75	6.37	23.85	6.13	24.09	5.49	24.73
1200.0	6.46	25.34	6.37	25.43	6.18	25.63	5.63	26.17
1400.0	6.81	26.34	6.74	26.41	6.57	26.58	6.10	27.04
1600.0	6.87	27.43	6.81	27.50	6.66	27.65	6.24	28.06
1800.0	6.45	28.87	6.39	28.93	6.26	29.06	5.90	29.42
2000.0	6.24	30.00	6.19	30.05	6.07	30.17	5.73	30.51
2500.0	5.50	32.68	5.46	32.72	5.36	32.82	5.08	33.10
3000.0	5.74	34.03	5.71	34.06	5.62	34.14	5.40	34.36
3500.0	5.29	35.81	5.26	35.84	5.19	35.91	4.99	36.11
4000.0	5.05	37.21	5.02	37.24	4.96	37.30	4.79	37.47
4500.0	5.55	37.74	5.52	37.76	5.46	37.82	5.29	37.99
5000.0	4.57	39.63	4.55	39.65	4.50	39.70	4.36	39.84
5500.0	5.35	39.67	5.33	39.70	5.28	39.75	5.14	39.89
6000.0	4.90	40.88	4.88	40.90	4.84	40.94	4.73	41.06
6500.0	5.33	41.14	5.31	41.17	5.27	41.21	5.16	41.32
7000.0	5.08	42.04	5.06	42.06	5.02	42.10	4.91	42.21
7500.0	4.63	43.09	4.62	43.10	4.59	43.13	4.50	43.22
8000.0	5.00	43.28	4.99	43.29	4.96	43.33	4.87	43.41
Bezugspunkt	Strahlungszone	Spitze						
Reference Point	Radiation Zone	Tip						

SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne USLP 9143B
Log. - Per. Broadband Antenna USLP 9143B

Korrekturdaten für kurze Messentfernung
Correction Data for Short Measuring Distances

