

# SCHWARZBECK MESS - ELEKTRONIK

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

## STLP 9128 D spezial Gestockte Breitband Log. - Per. Antenne 80 - 3000 MHz STLP 9128 D special Stacked Log. - Per. Antenna 80-3000 (4000) MHz



### Technische Daten:

Bauart:  
Linear polarisierte, gestockte  
Logarithmisch Periodische  
Breitbandantenne mit N- oder 7/16-  
Anschluss, Aluminiumausführung für  
Empfangs- und Sendeanwendungen.  
Haupteinsatzzweck: Erzeugung  
hoher Feldstärken bei guter  
Feldhomogenität und beengten  
Platzverhältnissen.

Frequenzbereich, nominell:	80 MHz...3 GHz
Nutzbarer Frequenzbereich:	70 MHz ... 4 GHz
Isotropgewinn:	9 +/- 3 dBi
Antennenfaktor:	2 ... 32 dB/m
Impedanz, nominell:	50 $\Omega$
Stehwellenverhältnis SWR typisch:	1.6 (f < 3 GHz)
Vor- Rückverhältnis:	8 - 22 dB
Polarisationsentkopplung:	>30 dB
3 dB Öffnungswinkel typ.(E-Ebene):	60°-75°
3 dB Öffnungswinkel typ.(H-Ebene):	50°-65°
Max. Eingangsleistung (N-Buchse):	1.5 kW (intermitt.) 1 kW (cont.)
Max. Eingangsleistung (7/16-Buchse):	3 kW (intermitt.) 2 kW (cont.)
Halterungsrohr:	d = 22 mm
Breite x Länge x Höhe bei vertikaler Polarisation:	1480 x 1480 x 1340 mm
Gewicht:	8.1 kg

### STLP 9128 D spezial

### Specifications:

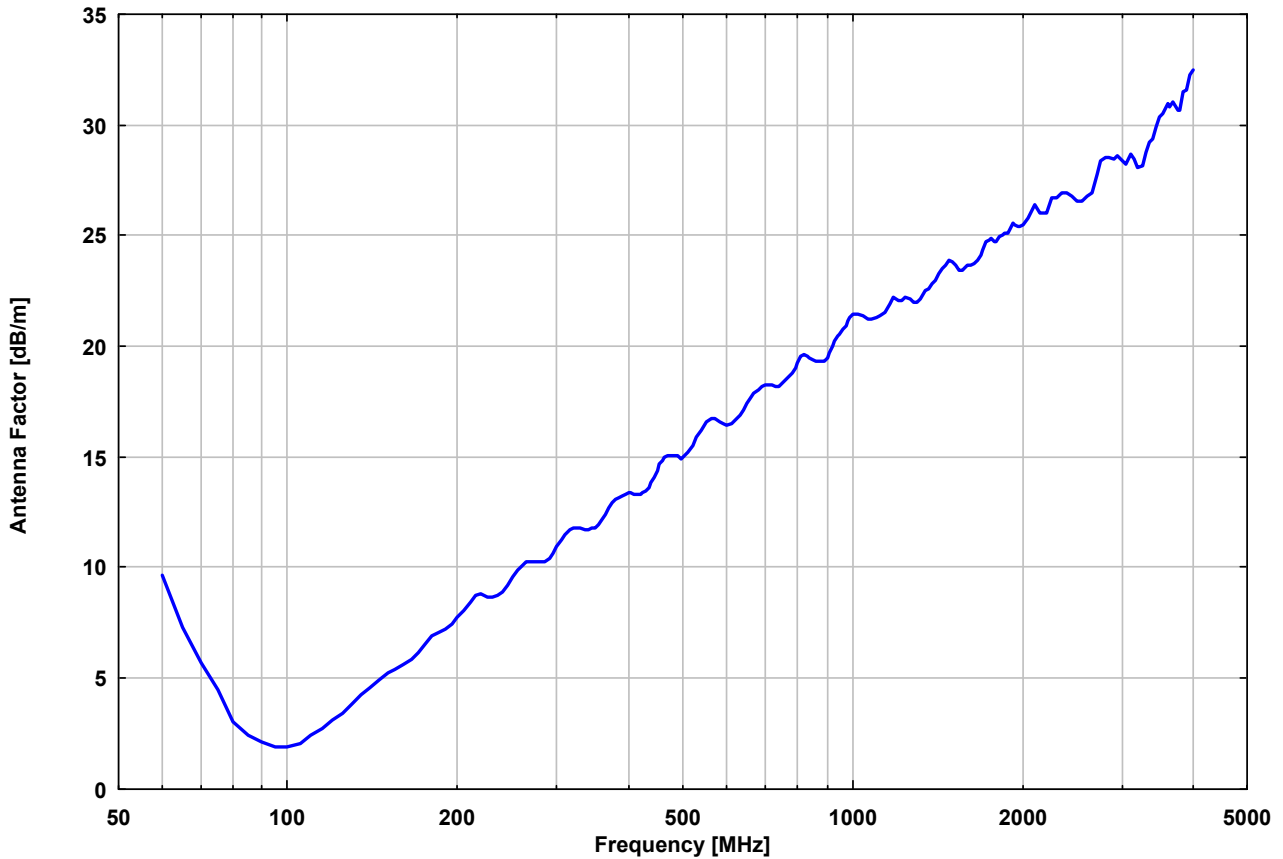
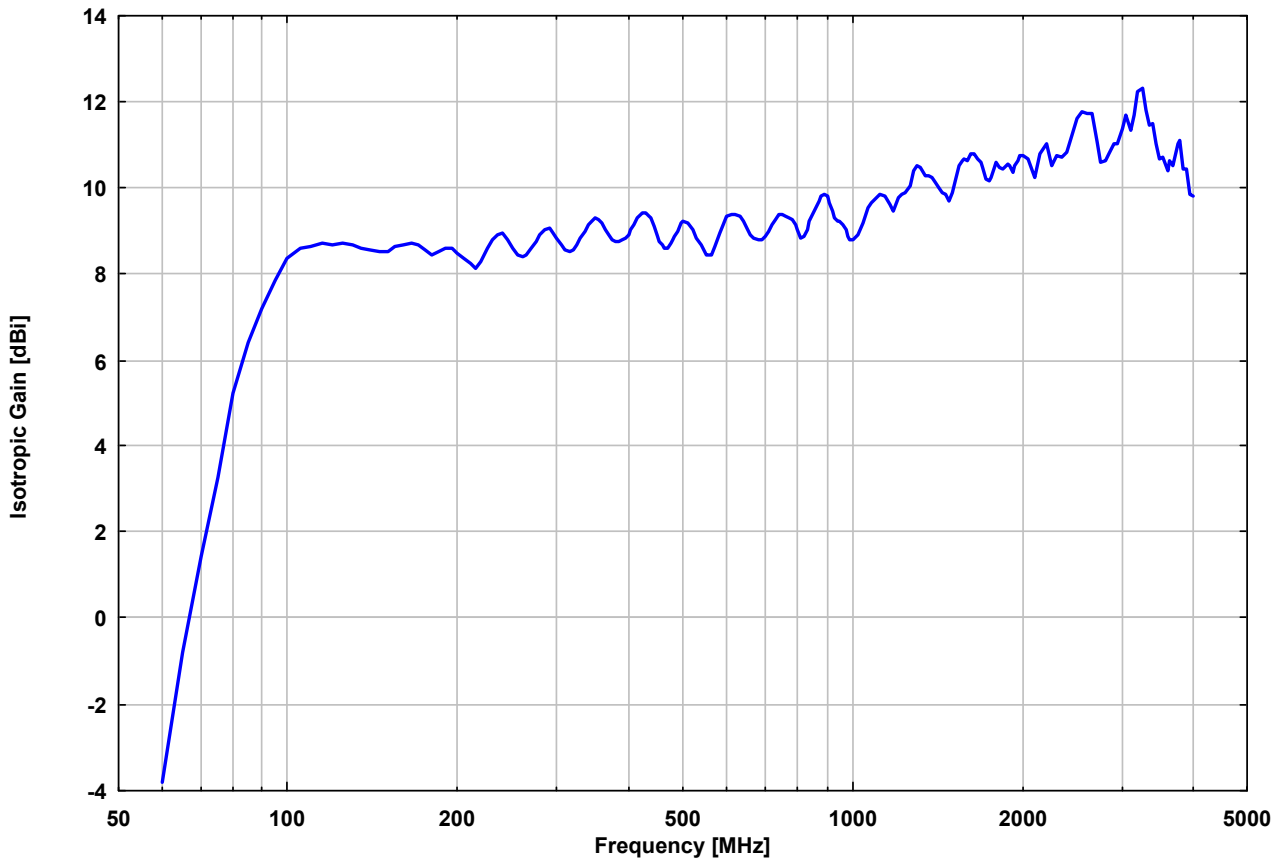
Type:  
*Linear polarized Stacked Logarithmic  
Periodic Broadband Antenna with N-  
or 7/16-connector for Receive and  
Transmit Applications. Main  
Application: Generation of defined  
fieldstrength levels for immunity  
testing with good field uniformity and  
limited space.*

Nominal frequency range:	80 MHz...3 GHz
Usable frequency range:	70 MHz ... 4 GHz
Isotropic gain:	9 +/- 3 dBi
Antenna factor:	2 ... 32 dB/m
Nominal impedance:	50 $\Omega$
Standing Wave Ratio SWR typical:	1.6 (f < 3 GHz)
Front to Back Ratio:	8 - 22 dB
Cross polarisation:	>30 dB
3 dB beam width typ. (E-Plane):	60°-75°
3 dB beam width typ. (H-Plane):	50°-65°
Max. input power (N-Connector):	1.5 kW (intermitt.) 1 kW (cont.)
Max. input power (7/16-Connector):	3 kW (intermitt.) 2 kW (cont.)
Mounting tube:	d = 22 mm
Width x length x height while set up in vertical polarisation:	1480 x 1480 x 1340 mm
Weight:	8.1 kg

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**STLP 9128 D** *spezial Gestockte Breitband Log. - Per. Antenne 80 - 3000 MHz*  
**STLP 9128 D** *special Stacked Log. - Per. Antenna 80-3000 (4000) MHz*



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

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## STLP 9128 D spezial Gestockte Breitband Log. - Per. Antenne 80 - 3000 MHz STLP 9128 D special Stacked Log. - Per. Antenna 80-3000 (4000) MHz

Frequency Frequenz	Distance Abstand	Wavelength Wellenlänge	Attenuation Dämpfung	Gain(Isotr.) Isotropgewinn	Ant.-Factor Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dB/m
60.00	4.40	5.00	28.51	-3.82	9.60
65.00	4.40	4.62	23.17	-0.80	7.28
70.00	4.40	4.29	19.35	1.43	5.69
75.00	4.40	4.00	16.25	3.28	4.44
80.00	4.22	3.75	12.54	5.24	3.04
85.00	4.07	3.53	10.38	6.42	2.39
90.00	3.93	3.33	9.01	7.20	2.10
95.00	3.80	3.16	7.84	7.88	1.89
100.00	3.69	3.00	7.05	8.37	1.85
105.00	3.59	2.86	6.81	8.58	2.06
110.00	3.50	2.73	6.87	8.64	2.41
115.00	3.41	2.61	6.92	8.70	2.73
120.00	3.34	2.50	7.11	8.69	3.11
125.00	3.27	2.40	7.18	8.74	3.42
130.00	3.20	2.31	7.47	8.68	3.82
135.00	3.14	2.22	7.75	8.62	4.21
140.00	3.08	2.14	8.01	8.57	4.57
145.00	3.03	2.07	8.23	8.54	4.91
150.00	2.98	2.00	8.38	8.54	5.20
155.00	2.94	1.94	8.35	8.63	5.40
160.00	2.90	1.88	8.38	8.69	5.61
165.00	2.86	1.82	8.48	8.71	5.86
170.00	2.82	1.76	8.69	8.68	6.15
175.00	2.78	1.71	9.05	8.57	6.51
180.00	2.75	1.67	9.41	8.46	6.87
185.00	2.72	1.62	9.42	8.52	7.04
190.00	2.69	1.58	9.36	8.62	7.18
195.00	2.66	1.54	9.53	8.60	7.42
200.00	2.63	1.50	9.90	8.48	7.76
205.00	2.60	1.46	10.23	8.38	8.08
210.00	2.58	1.43	10.64	8.24	8.42
215.00	2.56	1.40	10.96	8.14	8.73
220.00	2.53	1.36	10.76	8.30	8.77
225.00	2.51	1.33	10.30	8.59	8.67
230.00	2.49	1.30	9.96	8.82	8.63
235.00	2.47	1.28	9.86	8.93	8.71
240.00	2.45	1.25	9.96	8.94	8.88
245.00	2.43	1.22	10.33	8.81	9.19
250.00	2.42	1.20	10.89	8.59	9.59
255.00	2.40	1.18	11.30	8.44	9.91
260.00	2.38	1.15	11.51	8.39	10.13
265.00	2.37	1.13	11.52	8.44	10.24
270.00	2.35	1.11	11.35	8.58	10.27
275.00	2.34	1.09	11.07	8.77	10.24
280.00	2.33	1.07	10.86	8.93	10.23
285.00	2.31	1.05	10.74	9.04	10.28
290.00	2.30	1.03	10.80	9.06	10.41
295.00	2.29	1.02	11.09	8.97	10.65
300.00	2.28	1.00	11.47	8.83	10.93
305.00	2.26	0.98	11.91	8.66	11.25



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## STLP 9128 D spezial Gestockte Breitband Log. - Per. Antenne 80 - 3000 MHz STLP 9128 D special Stacked Log. - Per. Antenna 80-3000 (4000) MHz

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Ant.-Factor
Frequenz	Abstand	Wellenlänge	Dämpfung	Isotrop-gewinn	Ant.-Wand-lungsmaß
MHz	m	m	dB	dBi	dB/m
310.00	2.25	0.97	12.22	8.55	11.50
315.00	2.24	0.95	12.42	8.50	11.69
320.00	2.23	0.94	12.40	8.56	11.76
325.00	2.22	0.92	12.25	8.68	11.78
330.00	2.21	0.91	12.05	8.83	11.76
335.00	2.20	0.90	11.84	8.98	11.74
340.00	2.19	0.88	11.61	9.14	11.71
345.00	2.18	0.87	11.52	9.23	11.75
350.00	2.17	0.86	11.49	9.29	11.81
355.00	2.17	0.85	11.60	9.28	11.94
360.00	2.16	0.83	11.87	9.19	12.16
365.00	2.15	0.82	12.25	9.04	12.43
370.00	2.14	0.81	12.60	8.91	12.67
375.00	2.13	0.80	12.89	8.81	12.89
380.00	2.13	0.79	13.05	8.77	13.05
385.00	2.12	0.78	13.13	8.77	13.16
390.00	2.11	0.77	13.20	8.78	13.26
395.00	2.11	0.76	13.16	8.84	13.31
400.00	2.10	0.75	13.12	8.90	13.36
405.00	2.09	0.74	12.96	9.02	13.35
410.00	2.09	0.73	12.74	9.17	13.31
415.00	2.08	0.72	12.56	9.30	13.28
420.00	2.07	0.71	12.46	9.39	13.29
425.00	2.07	0.71	12.46	9.43	13.36
430.00	2.06	0.70	12.58	9.41	13.48
435.00	2.06	0.69	12.77	9.35	13.64
440.00	2.05	0.68	12.97	9.29	13.80
445.00	2.04	0.67	13.38	9.12	14.07
450.00	2.04	0.67	13.92	8.89	14.39
455.00	2.03	0.66	14.27	8.75	14.63
460.00	2.03	0.65	14.52	8.66	14.82
465.00	2.02	0.65	14.76	8.58	14.99
470.00	2.02	0.64	14.83	8.58	15.08
475.00	2.01	0.63	14.60	8.73	15.02
480.00	2.01	0.63	14.49	8.82	15.02
485.00	2.01	0.62	14.44	8.88	15.05
490.00	2.00	0.61	14.27	9.00	15.02
495.00	2.00	0.61	13.96	9.19	14.92
500.00	1.99	0.60	13.93	9.24	14.96
510.00	1.98	0.59	14.16	9.19	15.18
520.00	1.98	0.58	14.66	9.01	15.53
530.00	1.97	0.57	15.11	8.85	15.86
540.00	1.96	0.56	15.56	8.69	16.18
550.00	1.95	0.55	16.19	8.44	16.59
560.00	1.95	0.54	16.31	8.44	16.74
570.00	1.94	0.53	16.04	8.64	16.70
580.00	1.93	0.52	15.56	8.94	16.55
590.00	1.93	0.51	15.22	9.17	16.47
600.00	1.92	0.50	14.98	9.35	16.43
610.00	1.92	0.49	15.02	9.39	16.54
620.00	1.91	0.48	15.11	9.40	16.67

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Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Ant.-Factor
Frequenz	Abstand	Wellenlänge	Dämpfung	Isotrop-gewinn	Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dB/m
630.00	1.90	0.48	15.35	9.34	16.87
640.00	1.90	0.47	15.64	9.25	17.09
650.00	1.89	0.46	16.09	9.08	17.40
660.00	1.89	0.45	16.50	8.93	17.68
670.00	1.88	0.45	16.81	8.83	17.91
680.00	1.88	0.44	16.93	8.82	18.05
690.00	1.88	0.43	17.04	8.82	18.18
700.00	1.87	0.43	17.01	8.89	18.23
710.00	1.87	0.42	16.91	8.99	18.26
720.00	1.86	0.42	16.73	9.13	18.24
730.00	1.86	0.41	16.55	9.27	18.22
740.00	1.85	0.41	16.43	9.38	18.22
750.00	1.85	0.40	16.49	9.40	18.32
760.00	1.85	0.39	16.69	9.35	18.49
770.00	1.84	0.39	16.86	9.31	18.64
780.00	1.84	0.38	17.04	9.27	18.79
790.00	1.84	0.38	17.33	9.17	19.00
800.00	1.83	0.38	17.75	9.01	19.27
810.00	1.83	0.37	18.16	8.85	19.54
820.00	1.83	0.37	18.21	8.87	19.63
830.00	1.82	0.36	18.02	9.01	19.59
840.00	1.82	0.36	17.71	9.21	19.50
850.00	1.82	0.35	17.42	9.40	19.41
860.00	1.81	0.35	17.19	9.56	19.35
870.00	1.81	0.34	16.97	9.71	19.30
880.00	1.81	0.34	16.84	9.82	19.29
890.00	1.81	0.34	16.85	9.86	19.35
900.00	1.80	0.33	17.03	9.81	19.49
910.00	1.80	0.33	17.41	9.66	19.74
920.00	1.80	0.33	17.88	9.47	20.03
930.00	1.80	0.32	18.26	9.32	20.27
940.00	1.79	0.32	18.52	9.23	20.45
950.00	1.79	0.32	18.64	9.21	20.56
960.00	1.79	0.31	18.88	9.13	20.74
970.00	1.79	0.31	19.16	9.03	20.93
980.00	1.78	0.31	19.56	8.87	21.17
990.00	1.78	0.30	19.77	8.80	21.33
1000.00	1.78	0.30	19.87	8.79	21.43
1020.00	1.78	0.29	19.76	8.92	21.47
1040.00	1.77	0.29	19.39	9.18	21.38
1060.00	1.77	0.28	18.82	9.54	21.19
1080.00	1.76	0.28	18.68	9.68	21.21
1100.00	1.76	0.27	18.64	9.77	21.28
1120.00	1.76	0.27	18.62	9.85	21.35
1140.00	1.75	0.26	18.80	9.83	21.53
1160.00	1.75	0.26	19.38	9.61	21.90
1180.00	1.75	0.25	19.81	9.46	22.20
1200.00	1.74	0.25	19.32	9.77	22.03
1220.00	1.74	0.25	19.27	9.86	22.09
1240.00	1.74	0.24	19.36	9.88	22.21
1260.00	1.74	0.24	19.12	10.06	22.17



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Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Ant.-Factor
Frequenz	Abstand	Wellenlänge	Dämpfung	Isotropgewinn	Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dB/m
1280.00	1.73	0.23	18.52	10.42	21.94
1300.00	1.73	0.23	18.43	10.53	21.97
1320.00	1.73	0.23	18.67	10.47	22.16
1340.00	1.73	0.22	19.17	10.28	22.48
1360.00	1.72	0.22	19.26	10.29	22.60
1380.00	1.72	0.22	19.48	10.24	22.78
1400.00	1.72	0.21	19.81	10.13	23.01
1420.00	1.72	0.21	20.18	10.00	23.27
1440.00	1.72	0.21	20.47	9.91	23.48
1460.00	1.71	0.21	20.72	9.84	23.67
1480.00	1.71	0.20	21.11	9.70	23.93
1500.00	1.71	0.20	20.84	9.89	23.85
1520.00	1.71	0.20	20.30	10.21	23.65
1540.00	1.71	0.19	19.81	10.51	23.46
1560.00	1.70	0.19	19.65	10.64	23.44
1580.00	1.70	0.19	19.69	10.67	23.52
1600.00	1.70	0.19	19.83	10.65	23.65
1620.00	1.70	0.19	19.67	10.78	23.63
1640.00	1.70	0.18	19.73	10.80	23.72
1660.00	1.70	0.18	20.05	10.69	23.93
1680.00	1.69	0.18	20.29	10.62	24.11
1700.00	1.69	0.18	20.70	10.46	24.37
1720.00	1.69	0.17	21.28	10.22	24.71
1740.00	1.69	0.17	21.43	10.19	24.84
1760.00	1.69	0.17	21.40	10.25	24.88
1780.00	1.69	0.17	21.05	10.47	24.76
1800.00	1.69	0.17	20.86	10.61	24.72
1820.00	1.68	0.16	21.23	10.47	24.95
1840.00	1.68	0.16	21.36	10.45	25.07
1860.00	1.68	0.16	21.37	10.49	25.12
1880.00	1.68	0.16	21.29	10.57	25.13
1900.00	1.68	0.16	21.50	10.51	25.29
1920.00	1.68	0.16	21.88	10.36	25.53
1940.00	1.68	0.15	21.67	10.51	25.47
1960.00	1.68	0.15	21.47	10.65	25.42
1980.00	1.67	0.15	21.37	10.74	25.41
2000.00	1.67	0.15	21.42	10.76	25.48
2050.00	1.67	0.15	21.76	10.69	25.77
2100.00	1.67	0.14	22.87	10.23	26.43
2150.00	1.67	0.14	21.91	10.81	26.06
2200.00	1.66	0.14	21.67	11.02	26.05
2250.00	1.66	0.13	22.82	10.54	26.72
2300.00	1.66	0.13	22.56	10.76	26.69
2350.00	1.66	0.13	22.79	10.73	26.91
2400.00	1.66	0.13	22.73	10.85	26.97
2450.00	1.65	0.12	22.12	11.24	26.76
2500.00	1.65	0.12	21.54	11.61	26.57
2550.00	1.65	0.12	21.35	11.79	26.56
2600.00	1.65	0.12	21.59	11.75	26.77
2650.00	1.65	0.11	21.74	11.75	26.93
2700.00	1.65	0.11	23.28	11.06	27.79



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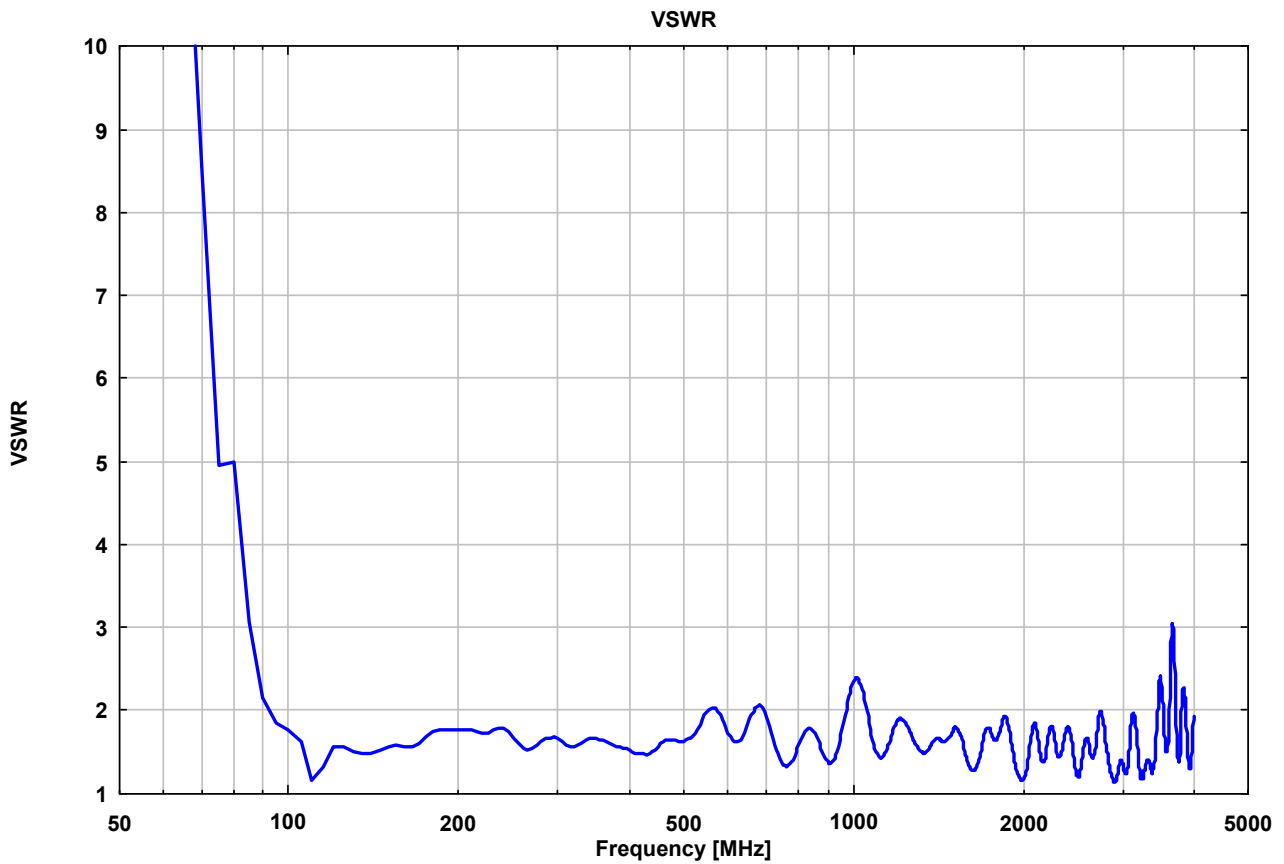
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Frequenz	Abstand	Wellenlänge	Dämpfung	Isotrop-gewinn	Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dB/m
2750.00	1.64	0.11	24.31	10.62	28.39
2800.00	1.64	0.11	24.44	10.63	28.53
2850.00	1.64	0.11	24.27	10.79	28.53
2900.00	1.64	0.10	23.93	11.03	28.44
2950.00	1.64	0.10	24.11	11.01	28.61
3000.00	1.64	0.10	23.49	11.39	28.37
3050.00	1.64	0.10	23.05	11.68	28.23
3100.00	1.64	0.10	23.83	11.36	28.69
3150.00	1.64	0.10	23.26	11.71	28.48
3200.00	1.63	0.09	22.35	12.23	28.09
3250.00	1.63	0.09	22.30	12.32	28.14
3300.00	1.63	0.09	23.43	11.82	28.77
3350.00	1.63	0.09	24.27	11.46	29.26
3400.00	1.63	0.09	24.30	11.51	29.34
3450.00	1.63	0.09	25.38	11.03	29.95
3500.00	1.63	0.09	26.18	10.69	30.41
3550.00	1.63	0.08	26.28	10.70	30.52
3600.00	1.63	0.08	27.03	10.38	30.97
3650.00	1.63	0.08	26.61	10.65	30.82
3700.00	1.62	0.08	26.96	10.53	31.05
3750.00	1.62	0.08	26.10	11.02	30.68
3800.00	1.62	0.08	26.01	11.12	30.70
3850.00	1.62	0.08	27.50	10.43	31.50
3900.00	1.62	0.08	27.60	10.43	31.61
3950.00	1.62	0.08	28.83	9.87	32.28
4000.00	1.62	0.08	29.08	9.80	32.46

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

**STLP 9128 D spezial Gestockte Breitband Log. - Per. Antenne 80 - 3000 MHz**  
**STLP 9128 D special Stacked Log. - Per. Antenna 80-3000 (4000) MHz**



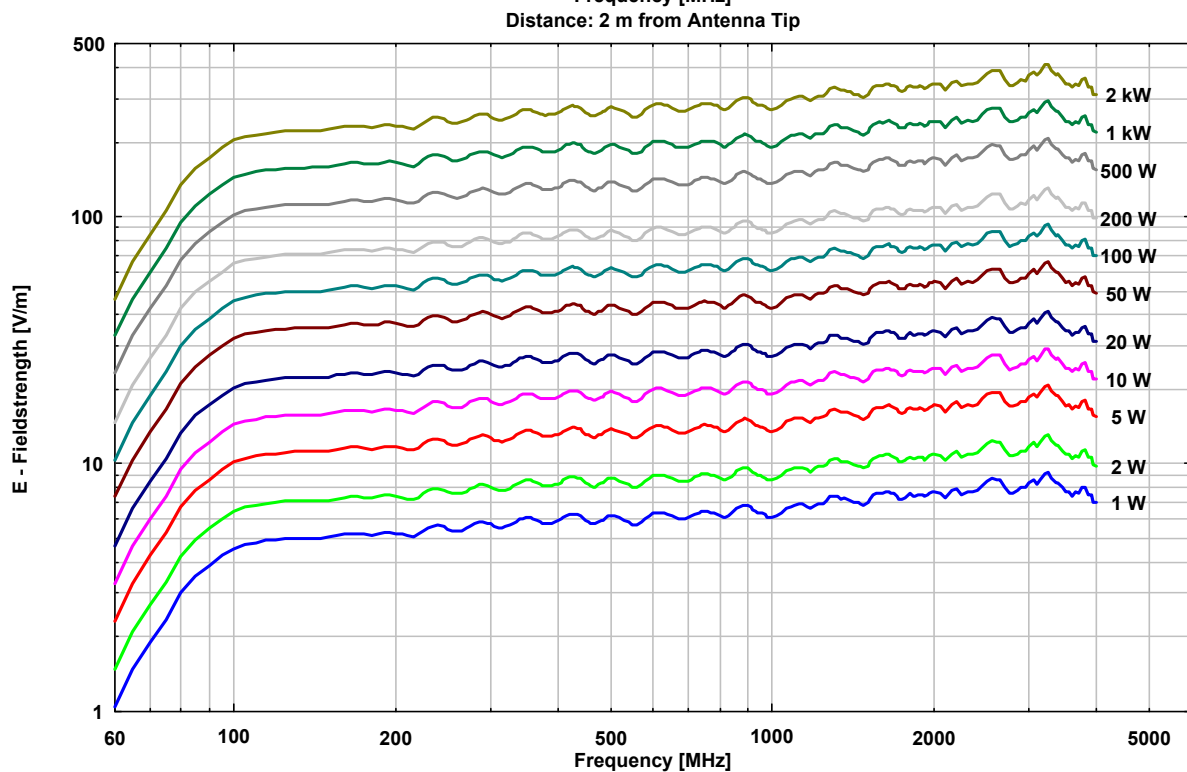
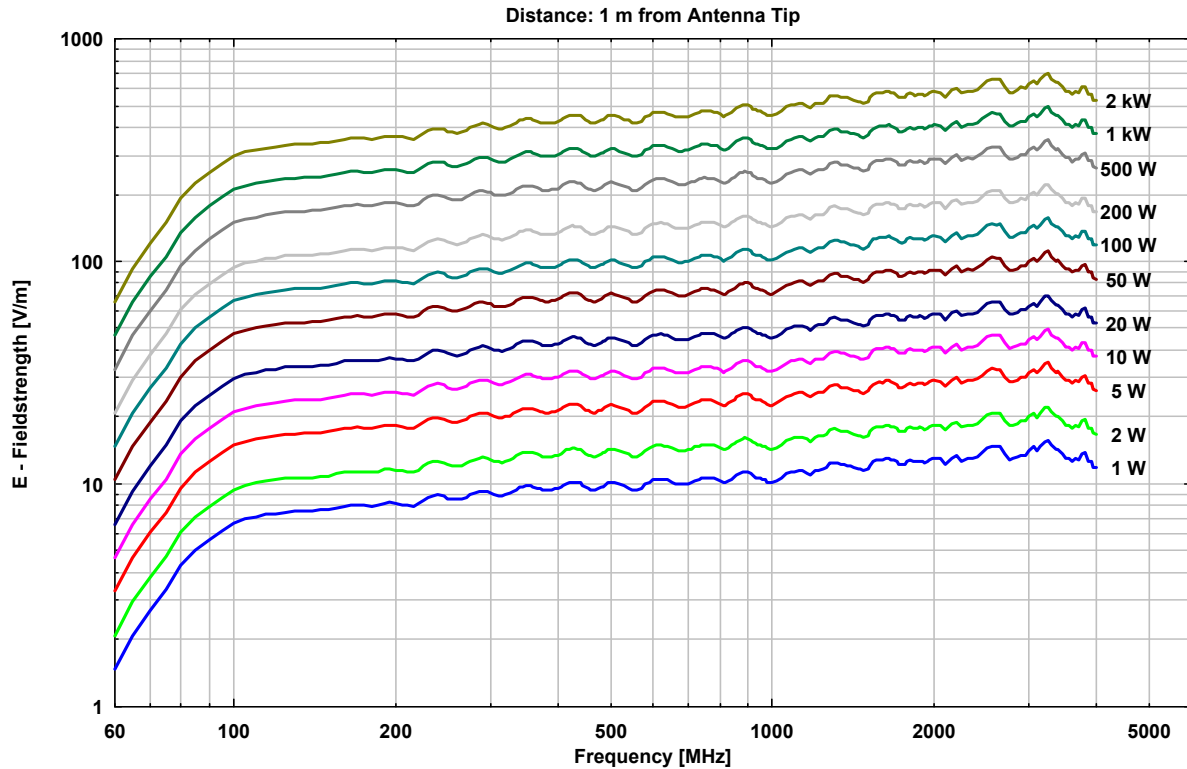


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## STLP 9128 D spezial Gestockte Breitband Log. - Per. Antenne 80 - 3000 MHz STLP 9128 D special Stacked Log. - Per. Antenna 80-3000 (4000) MHz

Erzeugte Elektrische Feldstärke vor der Antennenspitze  
unmoduliert, Eingangsleistung an N-Buchse, Reflexionsfreie Umgebung  
*Generated Electrical Fieldstrength in front of Antenna Tip  
no modulation, Input Power at N-Connector, Anechoic Environmental Conditions*



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