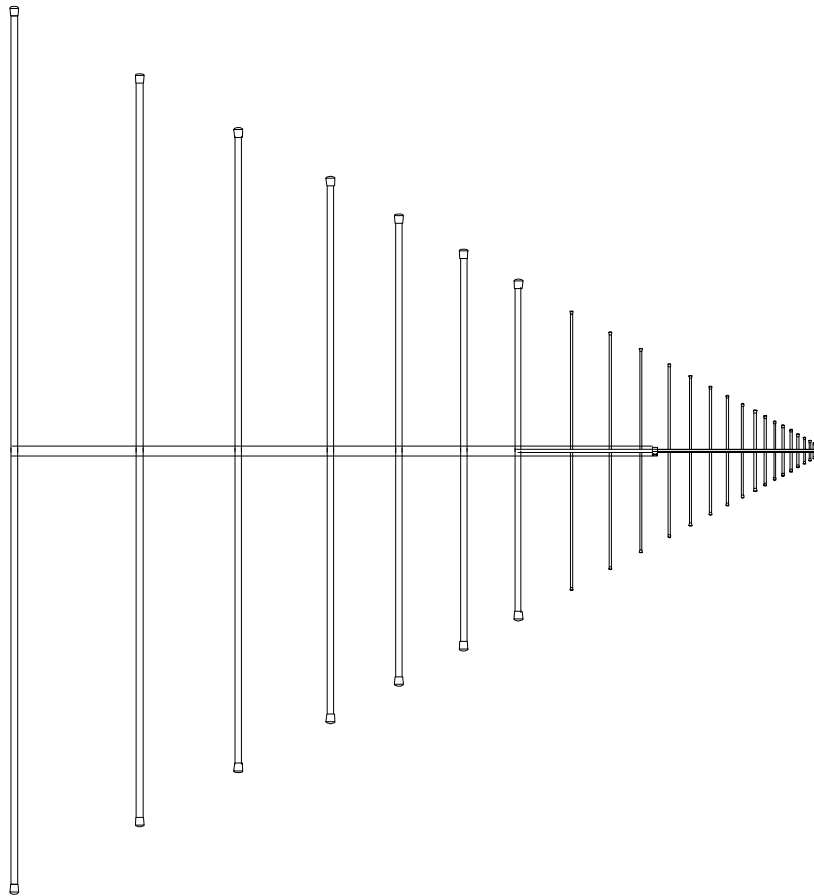


SCHWARZBECK MESS - ELEKTRONIK

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

VULP 9118 H Logarithmisch Periodische Breitbandantenne VULP 9118 H Logarithmic Periodic Broadband Antenna



Technische Daten:

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

Frequenzbereich, nominell: 30 MHz...1.3 GHz
Nutzbarer Frequenzbereich: 26 MHz ... 1.8 GHz
Isotropgewinn: 6.2 dBi + / - 1.2 dB
Antennenfaktor: -6 ... 31 dB/m
Impedanz, nominell: 50 Ω
Stehwellenverhältnis SWR max.: < 2.5
Stehwellenverhältnis SWR typisch: <1.5
Vor- Rückverhältnis: \approx 20 dB
Polarisationsentkopplung: >20 dB (30 MHz...1 GHz)
3 dB Öffnungswinkel typ.(E-Ebene): 50°-65°
3 dB Öffnungswinkel typ.(H-Ebene): 90°-120°
Max. Eingangsleistung: 2000 W (30 MHz)
300 W (1 GHz)

Anschlußart: N-Buchse
Breite x Länge x Dicke: 5120 x 4850 x 380 mm
Gewicht: 35 kg

VULP 9118 H

Specifications:

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

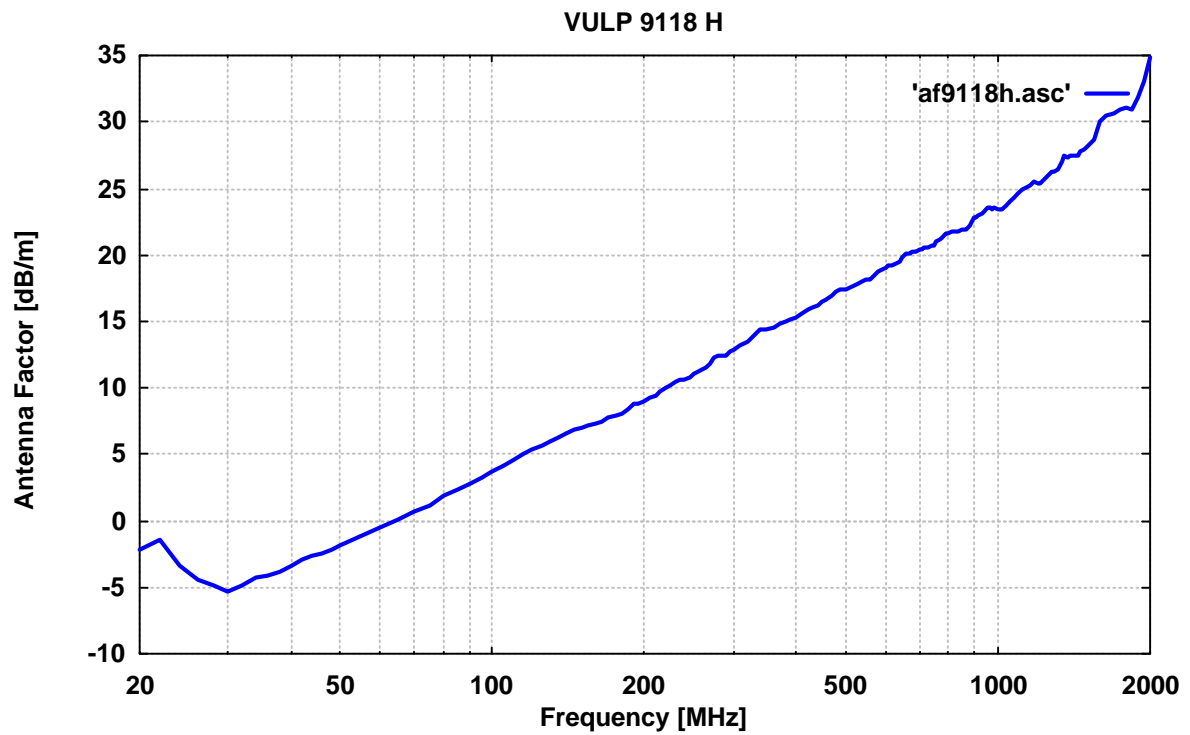
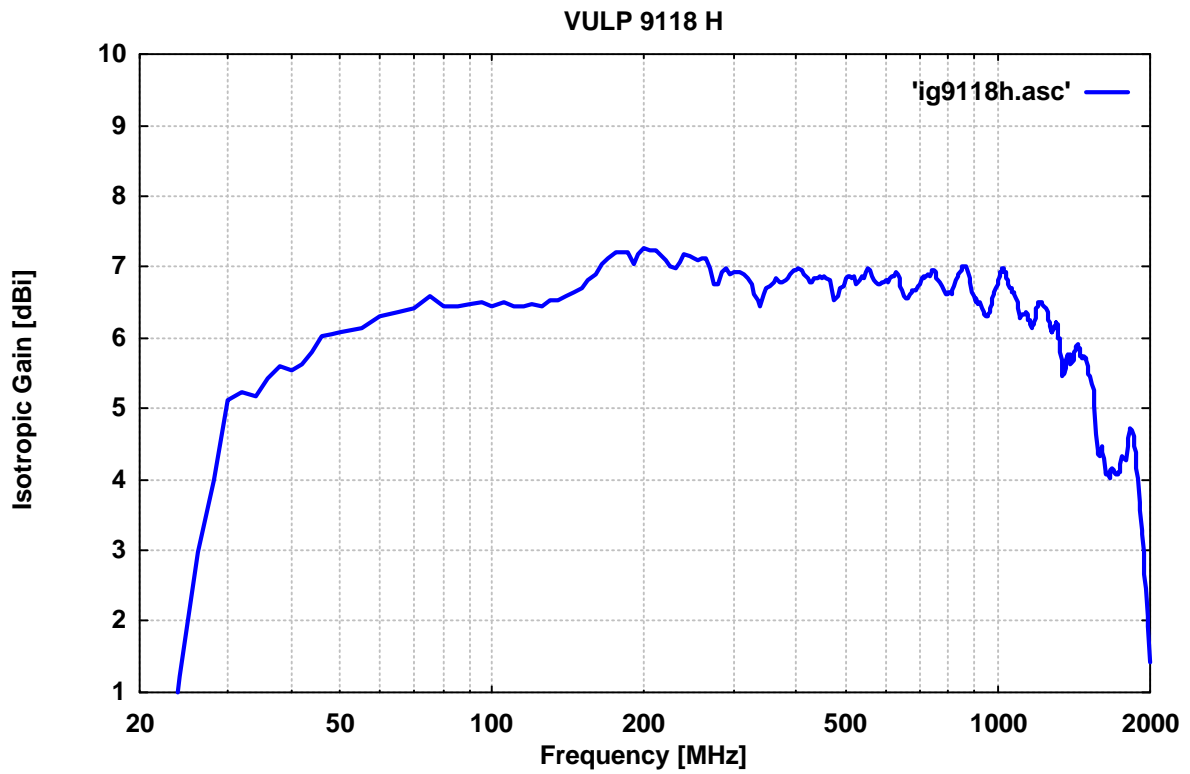
Nominal Frequency Range:
Usable Frequency Range:
Isotropic Gain:
Antenna Factor:
Nominal Impedance:
Standing Wave Ratio SWR max.:
Standing Wave Ratio SWR typical:
Front to Back Ratio:
Cross Polarisation:
3 dB Beamwidth typ. (E-Plane):
3 dB Beamwidth typ. (H-Plane):
Max. Input Power:

N-Connector female
Width x Length x Thickness:
Weight:

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VULP 9118 H Logarithmisch Periodische Breitbandantenne VULP 9118 H Logarithmic Periodic Broadband Antenna



SCHWARZBECK MESS - ELEKTRONIK

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

Logarithmisch Periodische Breitband Antenne VULP 9118 H Logarithmic Periodic Broadband Antenna VULP 9118 H

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellenlänge	Dämpfung	Isotrop-gewinn	Gewinn über Dipol	Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
20.00	13.00	15.00	24.03	-1.64	-3.79	-2.12
22.00	13.00	13.64	24.75	-1.59	-3.74	-1.34
24.00	13.00	12.50	19.88	1.22	-0.93	-3.40
26.00	13.00	11.54	17.09	2.97	0.82	-4.45
28.00	13.00	10.71	15.69	3.98	1.83	-4.82
30.00	12.68	10.00	13.78	5.13	2.98	-5.37
32.00	12.09	9.38	13.71	5.24	3.09	-4.92
34.00	11.58	8.82	13.97	5.19	3.04	-4.34
36.00	11.12	8.33	13.65	5.42	3.27	-4.07
38.00	10.71	7.89	13.45	5.59	3.44	-3.77
40.00	10.34	7.50	13.69	5.54	3.39	-3.28
42.00	10.00	7.14	13.67	5.62	3.47	-2.94
44.00	9.70	6.82	13.47	5.79	3.64	-2.70
46.00	9.42	6.52	13.14	6.02	3.87	-2.54
48.00	9.17	6.25	13.21	6.05	3.90	-2.21
50.00	8.93	6.00	13.26	6.09	3.94	-1.89
55.00	8.42	5.45	13.52	6.12	3.97	-1.09
60.00	8.00	5.00	13.44	6.31	4.16	-0.53
65.00	7.64	4.62	13.66	6.35	4.20	0.13
70.00	7.33	4.29	13.79	6.43	4.28	0.69
75.00	7.06	4.00	13.75	6.58	4.43	1.14
80.00	6.83	3.75	14.32	6.43	4.28	1.85
85.00	6.62	3.53	14.57	6.44	4.29	2.37
90.00	6.44	3.33	14.73	6.49	4.34	2.82
95.00	6.27	3.16	14.96	6.49	4.34	3.28
100.00	6.13	3.00	15.30	6.44	4.29	3.78
105.00	5.99	2.86	15.43	6.49	4.34	4.15
110.00	5.87	2.73	15.73	6.46	4.30	4.59
115.00	5.76	2.61	15.96	6.45	4.30	4.98
120.00	5.66	2.50	16.14	6.47	4.32	5.33
125.00	5.57	2.40	16.37	6.46	4.31	5.70
130.00	5.48	2.31	16.45	6.52	4.37	5.98
135.00	5.40	2.22	16.61	6.54	4.39	6.29
140.00	5.32	2.14	16.73	6.58	4.43	6.56
145.00	5.26	2.07	16.81	6.63	4.48	6.81
150.00	5.19	2.00	16.88	6.69	4.54	7.05
155.00	5.13	1.94	16.84	6.81	4.65	7.22
160.00	5.07	1.88	16.82	6.91	4.76	7.39
165.00	5.02	1.82	16.73	7.04	4.89	7.53
170.00	4.97	1.76	16.73	7.12	4.97	7.71
175.00	4.92	1.71	16.75	7.20	5.05	7.88
180.00	4.88	1.67	16.90	7.21	5.06	8.12
185.00	4.84	1.62	17.06	7.21	5.06	8.36
190.00	4.80	1.58	17.54	7.05	4.90	8.75
195.00	4.76	1.54	17.46	7.16	5.01	8.86
200.00	4.72	1.50	17.40	7.27	5.12	8.97
MHz	m	m	dB	dBi	dBd	dB/m

SCHWARZBECK MESS - ELEKTRONIK

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

Logarithmisch Periodische Breitband Antenne VULP 9118 H Logarithmic Periodic Broadband Antenna VULP 9118 H

Frequency Frequenz	Distance Abstand	Wavelength Wellenlänge	Attenuation Dämpfung	Gain(Isotr.) Isotropgewinn	Gain(Dipole) Gewinn über Dipol	Ant.-Factor Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
205.00	4.69	1.46	17.62	7.24	5.09	9.22
210.00	4.66	1.43	17.79	7.23	5.08	9.44
215.00	4.63	1.40	18.06	7.17	5.02	9.70
220.00	4.60	1.36	18.37	7.08	4.93	9.98
225.00	4.57	1.33	18.66	7.01	4.86	10.25
230.00	4.54	1.30	18.87	6.97	4.82	10.48
235.00	4.51	1.28	18.80	7.08	4.93	10.56
240.00	4.49	1.25	18.73	7.18	5.03	10.65
245.00	4.47	1.22	18.92	7.15	5.00	10.85
250.00	4.44	1.20	19.13	7.11	4.96	11.07
255.00	4.42	1.18	19.30	7.09	4.94	11.26
260.00	4.40	1.15	19.39	7.11	4.96	11.41
265.00	4.38	1.13	19.46	7.14	4.99	11.55
270.00	4.36	1.11	19.87	6.99	4.84	11.85
275.00	4.34	1.09	20.48	6.75	4.60	12.26
280.00	4.32	1.07	20.59	6.76	4.60	12.41
285.00	4.30	1.05	20.37	6.92	4.77	12.39
290.00	4.29	1.03	20.35	6.99	4.84	12.48
295.00	4.27	1.02	20.63	6.91	4.76	12.71
300.00	4.26	1.00	20.70	6.93	4.78	12.83
310.00	4.22	0.97	20.91	6.94	4.79	13.11
320.00	4.20	0.94	21.33	6.84	4.68	13.49
330.00	4.17	0.91	22.02	6.60	4.45	13.99
340.00	4.14	0.88	22.55	6.44	4.28	14.41
350.00	4.12	0.86	22.25	6.69	4.54	14.41
360.00	4.10	0.83	22.26	6.78	4.63	14.56
370.00	4.08	0.81	22.47	6.77	4.62	14.81
380.00	4.06	0.79	22.61	6.80	4.65	15.02
390.00	4.04	0.77	22.61	6.89	4.74	15.15
400.00	4.02	0.75	22.67	6.95	4.80	15.31
410.00	4.00	0.73	22.86	6.94	4.79	15.53
420.00	3.99	0.71	23.23	6.85	4.69	15.84
430.00	3.97	0.70	23.51	6.79	4.64	16.10
440.00	3.96	0.68	23.55	6.85	4.70	16.24
450.00	3.94	0.67	23.71	6.86	4.71	16.43
460.00	3.93	0.65	23.91	6.84	4.69	16.64
470.00	3.92	0.64	24.39	6.68	4.53	16.99
480.00	3.90	0.63	24.80	6.55	4.40	17.30
490.00	3.89	0.61	24.67	6.69	4.54	17.34
500.00	3.88	0.60	24.54	6.83	4.68	17.37
510.00	3.87	0.59	24.62	6.87	4.71	17.51
520.00	3.86	0.58	24.76	6.86	4.71	17.68
530.00	3.85	0.57	25.09	6.77	4.62	17.93
540.00	3.84	0.56	25.02	6.88	4.72	17.99
550.00	3.83	0.55	25.03	6.94	4.79	18.09
560.00	3.82	0.54	25.12	6.96	4.81	18.22
570.00	3.81	0.53	25.57	6.81	4.66	18.53
580.00	3.80	0.52	25.78	6.77	4.62	18.72
590.00	3.80	0.51	25.88	6.78	4.63	18.85
600.00	3.79	0.50	25.96	6.80	4.65	18.98
MHz	m	m	dB	dBi	dBd	dB/m

SCHWARZBECK MESS - ELEKTRONIK

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

Logarithmisch Periodische Breitband Antenne VULP 9118 H Logarithmic Periodic Broadband Antenna VULP 9118 H

Frequency Frequenz	Distance Abstand	Wavelength Wellenlänge	Attenuation Dämpfung	Gain(Isotr.) Isotropgewinn	Gain(Dipole) Gewinn über Dipol	Ant.-Factor Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
610.00	3.78	0.49	26.11	6.80	4.64	19.13
620.00	3.77	0.48	26.08	6.87	4.72	19.20
630.00	3.76	0.48	26.11	6.92	4.77	19.29
640.00	3.76	0.47	26.39	6.84	4.69	19.50
650.00	3.75	0.46	26.84	6.67	4.52	19.81
660.00	3.74	0.45	27.19	6.56	4.40	20.06
670.00	3.74	0.45	27.21	6.60	4.45	20.14
680.00	3.73	0.44	27.19	6.67	4.52	20.20
690.00	3.73	0.43	27.29	6.68	4.53	20.32
700.00	3.72	0.43	27.23	6.76	4.61	20.36
710.00	3.71	0.42	27.19	6.84	4.69	20.41
720.00	3.71	0.42	27.29	6.84	4.69	20.53
730.00	3.70	0.41	27.30	6.89	4.74	20.59
740.00	3.70	0.41	27.35	6.92	4.77	20.68
750.00	3.69	0.40	27.40	6.95	4.80	20.77
760.00	3.69	0.39	27.72	6.84	4.69	21.00
770.00	3.68	0.39	27.94	6.78	4.63	21.17
780.00	3.68	0.38	28.13	6.73	4.58	21.33
790.00	3.67	0.38	28.46	6.62	4.47	21.55
800.00	3.67	0.38	28.52	6.64	4.49	21.64
810.00	3.67	0.37	28.65	6.62	4.47	21.77
820.00	3.66	0.37	28.52	6.74	4.59	21.76
830.00	3.66	0.36	28.48	6.80	4.65	21.80
840.00	3.65	0.36	28.42	6.88	4.73	21.82
850.00	3.65	0.35	28.37	6.95	4.80	21.86
860.00	3.65	0.35	28.35	7.01	4.86	21.90
870.00	3.64	0.34	28.42	7.02	4.87	21.99
880.00	3.64	0.34	28.88	6.84	4.69	22.27
890.00	3.63	0.34	29.37	6.64	4.49	22.57
900.00	3.63	0.33	29.57	6.58	4.43	22.73
910.00	3.63	0.33	29.67	6.57	4.42	22.83
920.00	3.62	0.33	29.93	6.48	4.33	23.01
930.00	3.62	0.32	30.13	6.43	4.28	23.16
940.00	3.62	0.32	30.33	6.37	4.22	23.31
950.00	3.61	0.32	30.56	6.30	4.15	23.47
960.00	3.61	0.31	30.60	6.32	4.17	23.54
970.00	3.61	0.31	30.47	6.43	4.27	23.53
980.00	3.61	0.31	30.26	6.57	4.42	23.47
990.00	3.60	0.30	30.21	6.64	4.49	23.49
1000.00	3.60	0.30	30.03	6.77	4.62	23.45
1020.00	3.59	0.29	29.86	6.93	4.78	23.46
1040.00	3.59	0.29	30.06	6.91	4.76	23.65
1060.00	3.58	0.28	30.64	6.70	4.54	24.03
1080.00	3.58	0.28	30.96	6.61	4.46	24.27
1100.00	3.57	0.27	31.51	6.41	4.26	24.64
1120.00	3.57	0.27	31.85	6.32	4.17	24.89
1140.00	3.57	0.26	31.95	6.34	4.19	25.02
1160.00	3.56	0.26	32.25	6.25	4.10	25.25
1180.00	3.56	0.25	32.54	6.18	4.03	25.48
MHz	m	m	dB	dBi	dBd	dB/m

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

Logarithmisch Periodische Breitband Antenne VULP 9118 H Logarithmic Periodic Broadband Antenna VULP 9118 H

Frequency	Distance	Wavelength	Attenuation	Gain(Isotr.)	Gain(Dipole)	Ant.-Factor
Frequenz	Abstand	Wellenlänge	Dämpfung	Isotropgewinn	Gewinn über Dipol	Ant.-Wandlungsmaß
MHz	m	m	dB	dBi	dBd	dB/m
1200.00	3.55	0.25	32.12	6.46	4.31	25.34
1220.00	3.55	0.25	32.18	6.50	4.35	25.45
1240.00	3.55	0.24	32.44	6.43	4.28	25.65
1260.00	3.54	0.24	32.78	6.33	4.18	25.90
1280.00	3.54	0.23	33.41	6.08	3.93	26.29
1300.00	3.54	0.23	33.34	6.17	4.02	26.33
1320.00	3.53	0.23	33.45	6.18	4.03	26.45
1340.00	3.53	0.22	34.57	5.68	3.53	27.08
1360.00	3.53	0.22	35.09	5.48	3.33	27.41
1380.00	3.52	0.22	34.64	5.77	3.62	27.25
1400.00	3.52	0.21	35.06	5.62	3.47	27.52
1420.00	3.52	0.21	34.94	5.74	3.58	27.53
1440.00	3.51	0.21	34.68	5.92	3.77	27.47
1460.00	3.51	0.21	35.09	5.77	3.62	27.73
1480.00	3.51	0.20	35.30	5.73	3.58	27.90
1500.00	3.51	0.20	35.52	5.67	3.52	28.07
1550.00	3.50	0.19	36.60	5.26	3.11	28.76
1600.00	3.49	0.19	38.71	4.34	2.19	29.96
1650.00	3.49	0.18	39.46	4.09	1.94	30.48
1700.00	3.48	0.18	39.61	4.14	1.99	30.69
1750.00	3.48	0.17	39.95	4.09	1.94	30.99
1800.00	3.48	0.17	39.80	4.29	2.13	31.04
1850.00	3.47	0.16	39.18	4.71	2.56	30.86
1900.00	3.47	0.16	40.80	4.01	1.86	31.79
1950.00	3.46	0.15	43.08	2.98	0.83	33.04
2000.00	3.46	0.15	46.38	1.43	-0.72	34.81
MHz	m	m	dB	dBi	dBd	dB/m

Messunsicherheit:

+/- 0.8 dB

Measurement Uncertainty:

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VULP 9118 H Logarithmisch Periodische Breitbandantenne VULP 9118 H Logarithmic Periodic Broadband Antenna

