

# SCHWARZBECK MESS - ELEKTRONIK

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

## Logarithmisch Periodische Breitbandantenne VULP 9118 B *Logarithmic Periodic Broadband Antenna VULP 9118 B* 160 - 1500 (2000) MHz

Frequency MHz	Distance m	lambda m	Attenuat. dB	Gain(Isotr.) dBi	Gain,dipole dBd	Ant.-Factor dB/m
150.00	4.01	2.00	25.30	1.36	-0.79	12.38
160.00	4.01	1.88	20.90	3.84	1.69	10.46
170.00	4.01	1.76	18.50	5.31	3.16	9.52
175.00	3.96	1.71	17.70	5.78	3.63	9.30
180.00	3.92	1.67	16.67	6.37	4.22	8.96
185.00	3.87	1.62	16.06	6.74	4.59	8.82
190.00	3.83	1.58	15.70	6.99	4.84	8.80
195.00	3.80	1.54	15.55	7.14	4.99	8.88
200.00	3.76	1.50	15.71	7.13	4.98	9.11
210.00	3.69	1.43	16.25	6.99	4.84	9.67
220.00	3.63	1.36	16.25	7.12	4.97	9.95
225.00	3.60	1.33	16.51	7.05	4.90	10.21
230.00	3.57	1.30	16.60	7.07	4.92	10.39
240.00	3.52	1.25	17.09	6.95	4.79	10.88
250.00	3.47	1.20	17.18	7.02	4.87	11.16
260.00	3.43	1.15	17.30	7.07	4.92	11.45
270.00	3.39	1.11	18.02	6.83	4.68	12.02
275.00	3.37	1.09	18.22	6.78	4.63	12.23
280.00	3.35	1.07	18.05	6.92	4.77	12.24
290.00	3.32	1.03	17.93	7.09	4.94	12.38
300.00	3.28	1.00	18.01	7.15	5.00	12.61
310.00	3.25	0.97	18.13	7.19	5.04	12.85
320.00	3.22	0.94	18.40	7.16	5.01	13.17
325.00	3.21	0.92	18.60	7.11	4.96	13.35
330.00	3.20	0.91	18.70	7.10	4.95	13.49
340.00	3.17	0.88	18.75	7.17	5.02	13.67
350.00	3.15	0.86	18.89	7.20	5.05	13.90
360.00	3.13	0.83	19.00	7.23	5.08	14.11
370.00	3.10	0.81	19.41	7.12	4.97	14.47
375.00	3.09	0.80	19.69	7.02	4.87	14.68
380.00	3.08	0.79	19.56	7.13	4.98	14.69
390.00	3.07	0.77	19.85	7.07	4.92	14.97
400.00	3.05	0.75	19.98	7.09	4.94	15.17
425.00	3.01	0.71	20.76	6.90	4.75	15.88
450.00	2.97	0.67	21.01	6.97	4.82	16.31
475.00	2.93	0.63	21.32	7.00	4.85	16.75
500.00	2.90	0.60	21.56	7.06	4.91	17.14
520.00	2.88	0.58	21.74	7.11	4.96	17.43
550.00	2.85	0.55	22.97	6.69	4.54	18.33
580.00	2.83	0.52	23.11	6.81	4.66	18.68
600.00	2.81	0.50	23.52	6.73	4.58	19.05
Frequency MHz	Distance m	lambda m	Attenuat. dB	Gain(Isotr.) dBi	Gain,dipole dBd	Ant.-Factor dB/m

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## Logarithmisch Periodische Breitbandantenne VULP 9118 B

### *Logarithmic Periodic Broadband Antenna VULP 9118 B*

160 - 1500 (2000) MHz

Frequency	Distance	lambda	Attenuat.	Gain(Isotr.)	Gain,dipole	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m
600.00	2.81	0.50	23.52	6.73	4.58	19.05
620.00	2.79	0.48	23.81	6.70	4.55	19.36
650.00	2.77	0.46	24.19	6.68	4.53	19.79
680.00	2.75	0.44	24.42	6.74	4.58	20.13
700.00	2.74	0.43	24.55	6.78	4.63	20.34
750.00	2.71	0.40	24.95	6.83	4.68	20.89
800.00	2.69	0.38	25.73	6.69	4.54	21.60
850.00	2.67	0.35	25.67	6.95	4.79	21.86
900.00	2.65	0.33	26.94	6.53	4.38	22.78
950.00	2.63	0.32	27.82	6.30	4.15	23.48
1000.00	2.62	0.30	27.40	6.70	4.55	23.52
1050.00	2.61	0.29	27.85	6.67	4.52	23.98
1100.00	2.59	0.27	29.35	6.10	3.95	24.95
1150.00	2.58	0.26	30.06	5.92	3.77	25.52
1200.00	2.57	0.25	29.54	6.35	4.20	25.46
1300.00	2.55	0.23	31.07	5.90	3.75	26.60
1400.00	2.54	0.21	33.15	5.15	3.00	27.99
1500.00	2.53	0.20	33.42	5.29	3.14	28.45
1600.00	2.51	0.19	37.30	3.61	1.46	30.69
1700.00	2.50	0.18	39.24	2.89	0.74	31.94
1800.00	2.49	0.17	38.58	3.45	1.30	31.87
1900.00	2.49	0.16	40.80	2.56	0.41	33.23
2000.00	2.48	0.15	47.25	-0.45	-2.60	36.69
Frequency	Distance	lambda	Attenuat.	Gain(Isotr.)	Gain,dipole	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m

Freiraum-Fernfeld-Kalibrierung VULP 9118-B, Meßunsicherheit der Felddämpfungsmessung  $< \pm 0,1$  dB Antennendaten (Gewinn und Wandlungsmass k)  $< \pm 0,7$  dB (180 MHz ... 1 GHz), 50-Ohm-System. 17-Element-Hochleistungsantenne für Feldstärkemessung (Emission) und EMV-Felderzeugung.

*Free-Space Far Field Calibration VULP 9118-B, 17 element LOG High-Power Test Antenna for field-strength (emission) measurement and EM field generation. Measurement uncertainty for site attenuation  $< \pm 0.1$  dB, antenna data (gain and antenna factor k)  $< \pm 0.7$  dB (180 MHz - 1 GHz), 50 Ohm system.*

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