

SCHWARZBECK MESS - ELEKTRONIK

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

Logarithmisch Periodische Breitband Antenne VULP 9118 C

Logarithmic Periodic Broadband Antenna VULP 9118 C

100 MHz - 1.4 (2) GHz, 1 kW

two-antenna method, free-space/far field, $D < 0.7 \text{ dB}$ 80209 gs

Frequency	Distance	lambda	Attenuation	Gain(Isotr.)	Gain (Dipole)	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m
100.00	5.02	3.00	21.25	2.60	0.45	7.62
105.00	5.02	2.86	19.66	3.61	1.46	7.03
110.00	5.02	2.73	19.61	3.84	1.69	7.21
115.00	5.02	2.61	19.75	3.96	1.81	7.47
120.00	5.02	2.50	19.41	4.31	2.16	7.49
125.00	5.02	2.40	18.45	4.97	2.82	7.19
130.00	4.93	2.31	17.10	5.74	3.59	6.76
135.00	4.85	2.22	16.35	6.21	4.06	6.62
140.00	4.78	2.14	16.08	6.43	4.28	6.71
145.00	4.71	2.07	15.95	6.59	4.44	6.86
150.00	4.64	2.00	15.87	6.71	4.56	7.03
160.00	4.52	1.88	16.22	6.71	4.56	7.59
170.00	4.42	1.76	16.53	6.72	4.56	8.11
180.00	4.33	1.67	16.90	6.69	4.54	8.64
190.00	4.25	1.58	16.99	6.79	4.64	9.00
200.00	4.17	1.50	17.49	6.69	4.54	9.55
210.00	4.10	1.43	17.42	6.87	4.71	9.80
220.00	4.04	1.36	17.05	7.19	5.04	9.88
225.00	4.01	1.33	17.42	7.07	4.92	10.19
230.00	3.99	1.30	17.67	7.01	4.86	10.44
240.00	3.94	1.25	17.61	7.17	5.02	10.66
250.00	3.89	1.20	17.96	7.12	4.97	11.06
260.00	3.85	1.15	18.19	7.12	4.97	11.39
270.00	3.80	1.11	18.27	7.20	5.05	11.64
275.00	3.79	1.09	18.71	7.04	4.89	11.97
280.00	3.77	1.07	19.17	6.87	4.72	12.30
290.00	3.73	1.03	18.98	7.07	4.92	12.39
300.00	3.70	1.00	19.50	6.92	4.77	12.84
325.00	3.63	0.92	19.73	7.07	4.92	13.39
350.00	3.57	0.86	20.13	7.12	4.97	13.98
375.00	3.51	0.80	20.72	7.06	4.91	14.64
400.00	3.46	0.75	22.03	6.62	4.47	15.64
425.00	3.42	0.71	22.40	6.65	4.50	16.14
450.00	3.39	0.67	22.94	6.58	4.43	16.70
475.00	3.35	0.63	22.81	6.84	4.69	16.92
500.00	3.32	0.60	23.05	6.90	4.75	17.30
Frequency	Distance	lambda	Attenuation	Gain(Isotr.)	Gain (Dipole)	Ant.-Factor
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MHz	m	m	dB	dBi	dBd	dB/m
500.00	3.32	0.60	23.05	6.90	4.75	17.30
525.00	3.30	0.57	23.42	6.89	4.74	17.73
550.00	3.27	0.55	24.11	6.72	4.57	18.31
575.00	3.25	0.52	24.55	6.66	4.51	18.75
600.00	3.23	0.50	24.88	6.65	4.50	19.13
650.00	3.19	0.46	25.42	6.68	4.53	19.80
700.00	3.16	0.43	25.99	6.68	4.52	20.45
750.00	3.13	0.40	25.98	6.94	4.79	20.78
800.00	3.11	0.38	27.02	6.67	4.52	21.61
850.00	3.09	0.35	27.32	6.75	4.60	22.05
900.00	3.07	0.33	27.52	6.88	4.73	22.43
950.00	3.05	0.32	28.56	6.57	4.42	23.21
1000.00	3.04	0.30	28.90	6.60	4.45	23.62
1050.00	3.03	0.29	28.97	6.76	4.61	23.89
1100.00	3.01	0.27	30.62	6.12	3.97	24.93
1150.00	3.00	0.26	31.80	5.70	3.55	25.73
1200.00	2.99	0.25	31.35	6.10	3.95	25.71
1250.00	2.98	0.24	31.09	6.39	4.24	25.77
1300.00	2.97	0.23	32.23	5.98	3.83	26.52
1350.00	2.97	0.22	34.70	4.90	2.75	27.93
1400.00	2.96	0.21	35.30	4.74	2.59	28.40
1450.00	2.95	0.21	34.00	5.54	3.39	27.91
1550.00	2.94	0.19	36.20	4.71	2.56	29.32
1600.00	2.93	0.19	38.20	3.84	1.69	30.47
1650.00	2.93	0.18	40.00	3.06	0.91	31.51
1700.00	2.92	0.18	41.00	2.68	0.53	32.14
1750.00	2.92	0.17	40.10	3.25	1.10	31.83
1800.00	2.91	0.17	38.60	4.12	1.97	31.21
1850.00	2.91	0.16	38.30	4.38	2.23	31.18
1900.00	2.91	0.16	39.10	4.09	1.94	31.70
1950.00	2.90	0.15	42.00	2.75	0.60	33.27
2000.00	2.90	0.15	46.00	0.85	-1.30	35.39
Frequency	Distance	lambda	Attenuation	Gain(Isotr.)	Gain (Dipole)	Ant.-Factor
MHz	m	m	dB	dBi	dBd	dB/m

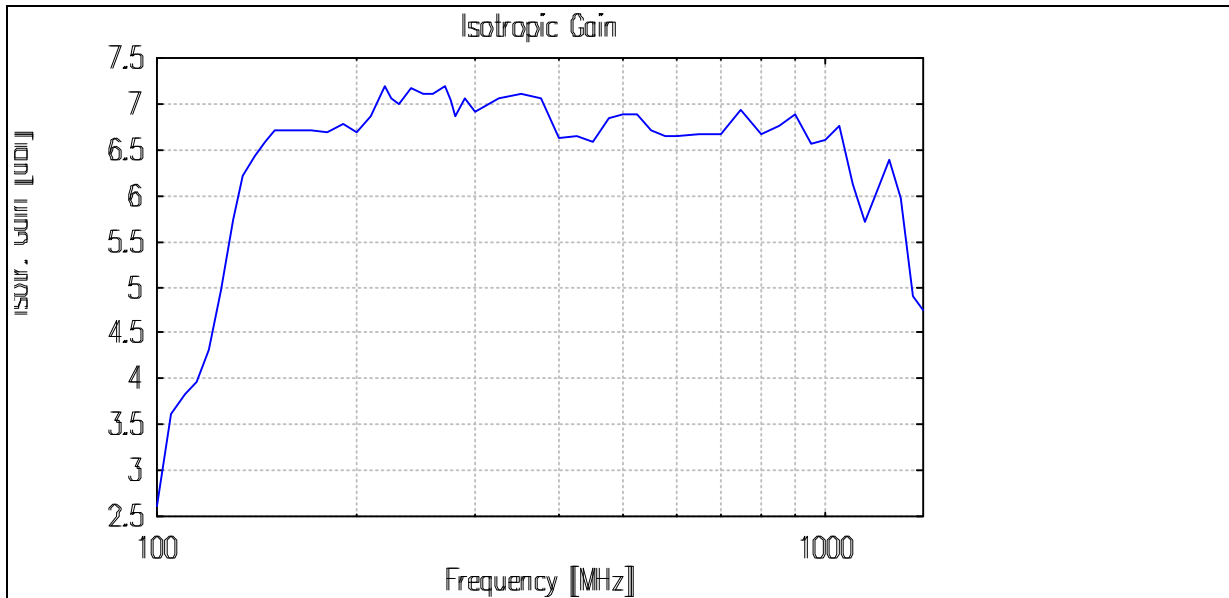
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VULP 9118-C (incl. 70mm capacitive loading discs at ends of rear element), free-space far field calibration. For separations < 10m the frequency-dependent phase centres should be considered, where the front elements are closer to the EuT/source and the rear element at a 1.05m greater distance (see manual).

Plot shows isotropic gain, log. X presentation, 100 MHz ... 1.4 GHz (see table for informative data up to 2 GHz, increased measurement uncertainty due to polarisation deviations caused by alternating different element height position).

Lower plot: Log ANTENNA FACTOR db(1/m), 100 MHz ... 1.4 GHz, free-space, far field

