Standard-Hornantenne
Standard Gain Horn Antenna

Beschreibung:
Linear polarisierte Standard Pyramidenhornantenne mit N-Koaxialanschluß für höchste Belastbarkeit. Dieser Antennentyp zeichnet sich durch konstant hohen Gewinn, sehr gute Richtwirkung und Oktav-Bandbreite aus. Hauptanwendungen sind Immunitätsprüfungen mit hohen Feldstärkeanforderungen oder Empfangsanwendungen mit hoher Empfindlichkeit.

Description:
The linear polarized standard gain antenna comes with a female N-connector for highest power handling. This antenna type is mainly characterized by nearly constant high gain, high directivity and octave bandwidth. Main applications are immunity tests with high fieldstrength requirements or receive applications with high sensitivity.

Technische Daten:		***Specifications:***
Frequenzbereich:	8 – 18 GHz	*Frequency Range:*
Gewinn:	typ. 20 dBi	*Gain:*
Antennen-Wandlungsmaß:	typ. 29 – 37 dB/m	*Antenna Factor:*
Nominelle Impedanz:	50 Ω	*Nominal Impedance:*
Dauerleistung:	300 W	*Continuous Power:*
VSWR:	typ. < 2	*VSWR:*
3 dB Öffnungswinkel E-Ebene:	typ. 15°	*3 dB Beamwidth E-plane:*
3 dB Öffnungswinkel H-Ebene:	typ. 16°	*3 dB Beamwidth H-plane:*
Gehäusematerial:	Aluminium	*Housing Material:*
Gehäuseabmessungen:	156 x 115 x 240 mm	*Housing Dimensions:*
Befestigung:	D = 22 mm, L = 200 mm	*Mounting*
Gewicht:	ca. 0.7 kg	*Weight:*
Anschluss:	N	*Connector:*

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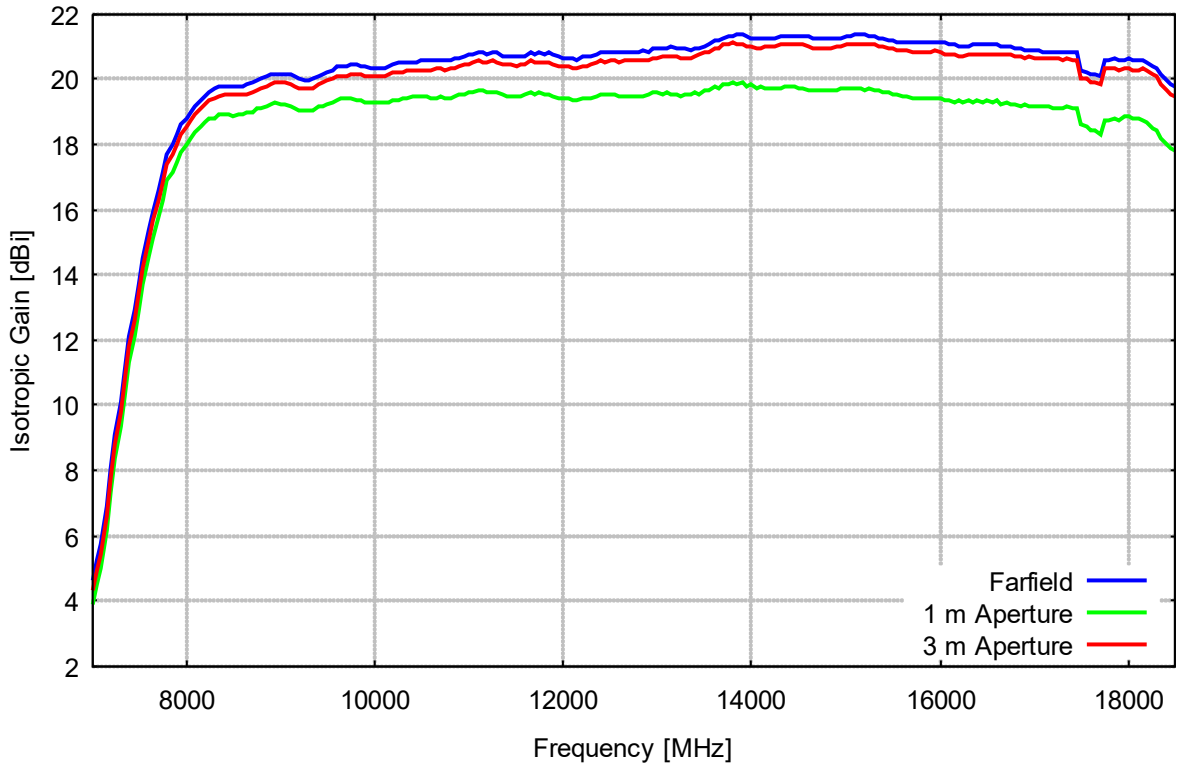

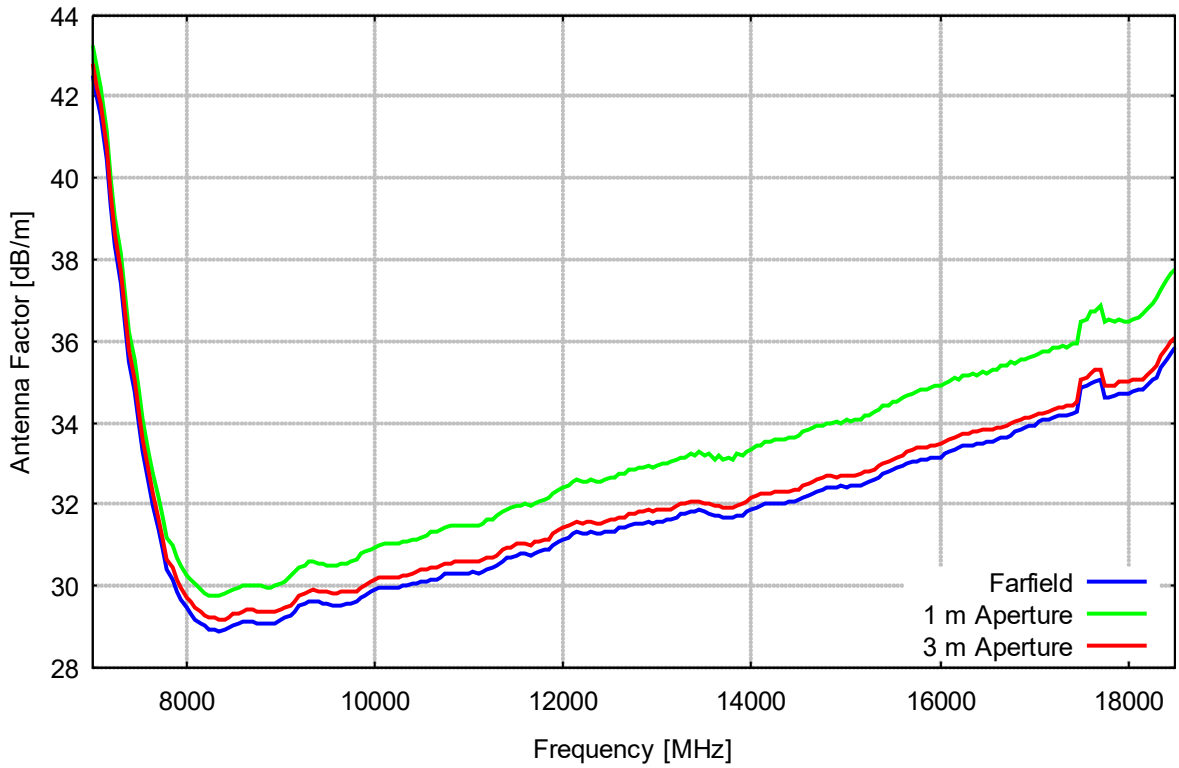

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Frequency	Gain(Isotr.) 1 m Aperture	Ant.-Factor 1 m Aperture	Gain(Isotr.) 3 m Aperture	Ant.-Factor 3 m Aperture	Gain(Isotr.) Farfield	Ant.-Factor Farfield
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m
7100	5.03	42.22	5.43	41.81	5.72	41.52
7150	6.18	41.13	6.58	40.73	6.88	40.43
7200	7.36	40.01	7.74	39.62	8.06	39.31
7250	8.38	39.04	8.79	38.64	9.09	38.33
7300	9.34	38.14	9.77	37.71	10.08	37.41
7350	10.30	37.24	10.77	36.78	11.07	36.47
7400	11.34	36.26	11.82	35.78	12.10	35.50
7450	12.10	35.56	12.62	35.04	12.90	34.77
7500	12.91	34.81	13.43	34.29	13.72	34.00
7550	13.68	34.10	14.19	33.59	14.48	33.30
7600	14.57	33.26	15.06	32.78	15.35	32.49
7650	15.13	32.76	15.65	32.24	15.93	31.96
7700	15.79	32.16	16.30	31.65	16.58	31.37
7750	16.30	31.70	16.84	31.16	17.12	30.89
7800	16.88	31.18	17.39	30.67	17.67	30.39
7850	17.13	30.99	17.69	30.43	17.97	30.15
7900	17.46	30.71	18.01	30.16	18.31	29.86
7950	17.72	30.51	18.28	29.95	18.58	29.65
8000	18.01	30.27	18.55	29.73	18.82	29.47
8050	18.16	30.18	18.73	29.60	19.00	29.34
8100	18.35	30.04	18.92	29.47	19.19	29.20
8150	18.53	29.91	19.09	29.36	19.36	29.08
8200	18.66	29.83	19.22	29.28	19.49	29.01
8250	18.77	29.78	19.33	29.22	19.61	28.94
8300	18.82	29.78	19.39	29.21	19.69	28.92
8350	18.89	29.76	19.48	29.18	19.76	28.89
8400	18.90	29.81	19.51	29.20	19.78	28.93
8450	18.90	29.85	19.51	29.24	19.77	28.98
8500	18.88	29.93	19.50	29.31	19.76	29.04
8550	18.91	29.95	19.52	29.34	19.80	29.06
8600	18.92	29.99	19.52	29.39	19.80	29.11
8650	18.96	30.00	19.55	29.41	19.82	29.14
8700	19.00	30.01	19.61	29.40	19.88	29.13
8750	19.07	29.99	19.68	29.38	19.97	29.09
8800	19.11	29.99	19.73	29.38	20.01	29.10
8850	19.19	29.97	19.79	29.36	20.07	29.09
8900	19.23	29.98	19.85	29.36	20.12	29.09
8950	19.26	30.00	19.89	29.37	20.16	29.10
9000	19.25	30.05	19.89	29.42	20.14	29.16
9050	19.23	30.12	19.88	29.48	20.13	29.23
9100	19.16	30.24	19.86	29.54	20.11	29.29
9150	19.10	30.35	19.80	29.64	20.06	29.39
9200	19.04	30.45	19.74	29.76	20.00	29.50
9250	19.02	30.52	19.72	29.82	19.98	29.56
9300	19.01	30.58	19.71	29.87	19.97	29.62
9350	19.06	30.58	19.73	29.90	19.99	29.64
9400	19.13	30.56	19.83	29.85	20.09	29.60
9450	19.19	30.54	19.89	29.84	20.15	29.58
9500	19.25	30.52	19.93	29.84	20.21	29.56
9550	19.31	30.51	20	29.82	20.28	29.54
9600	19.37	30.49	20.08	29.79	20.36	29.50
9650	19.39	30.53	20.07	29.84	20.37	29.54

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Frequency	Gain(Isotr.) 1 m Aperture	Ant.-Factor 1 m Aperture	Gain(Isotr.) 3 m Aperture	Ant.-Factor 3 m Aperture	Gain(Isotr.) Farfield	Ant.-Factor Farfield
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m
9700	19.40	30.56	20.10	29.85	20.40	29.56
9750	19.39	30.61	20.13	29.87	20.42	29.58
9800	19.37	30.67	20.16	29.88	20.44	29.60
9850	19.32	30.77	20.12	29.97	20.38	29.71
9900	19.31	30.83	20.10	30.03	20.36	29.77
9950	19.28	30.90	20.08	30.09	20.34	29.84
10000	19.26	30.96	20.08	30.14	20.32	29.90
10050	19.26	31.01	20.06	30.20	20.32	29.94
10100	19.29	31.02	20.08	30.22	20.35	29.96
10150	19.31	31.04	20.16	30.19	20.41	29.94
10200	19.35	31.04	20.20	30.19	20.45	29.94
10250	19.37	31.06	20.22	30.21	20.48	29.96
10300	19.40	31.08	20.23	30.25	20.48	30.00
10350	19.43	31.08	20.27	30.25	20.52	30.00
10400	19.44	31.12	20.25	30.31	20.50	30.06
10450	19.44	31.16	20.25	30.35	20.52	30.08
10500	19.46	31.19	20.27	30.38	20.55	30.09
10550	19.46	31.23	20.29	30.39	20.57	30.11
10600	19.41	31.31	20.27	30.45	20.55	30.17
10650	19.42	31.35	20.30	30.46	20.58	30.18
10700	19.44	31.37	20.30	30.51	20.59	30.22
10750	19.41	31.44	20.29	30.56	20.56	30.29
10800	19.42	31.46	20.32	30.57	20.59	30.30
10850	19.46	31.47	20.34	30.59	20.63	30.30
10900	19.51	31.46	20.37	30.60	20.65	30.32
10950	19.53	31.48	20.43	30.58	20.69	30.32
11000	19.58	31.47	20.47	30.58	20.74	30.31
11050	19.61	31.48	20.48	30.60	20.75	30.34
11100	19.65	31.48	20.55	30.58	20.80	30.32
11150	19.62	31.55	20.53	30.64	20.79	30.37
11200	19.60	31.61	20.52	30.69	20.78	30.42
11250	19.61	31.63	20.56	30.68	20.81	30.43
11300	19.56	31.72	20.53	30.75	20.79	30.49
11350	19.50	31.82	20.45	30.87	20.71	30.61
11400	19.47	31.89	20.43	30.93	20.68	30.68
11450	19.48	31.91	20.45	30.95	20.71	30.69
11500	19.46	31.97	20.41	31.02	20.68	30.76
11550	19.49	31.98	20.43	31.04	20.70	30.77
11600	19.50	32.01	20.46	31.05	20.72	30.79
11650	19.57	31.97	20.54	31.01	20.80	30.75
11700	19.55	32.04	20.51	31.07	20.78	30.80
11750	19.56	32.06	20.52	31.10	20.79	30.83
11800	19.53	32.13	20.50	31.16	20.76	30.90
11850	19.54	32.15	20.53	31.16	20.79	30.90
11900	19.46	32.27	20.46	31.27	20.73	31.00
11950	19.42	32.35	20.41	31.36	20.67	31.09
12000	19.38	32.42	20.38	31.42	20.65	31.15
12050	19.38	32.46	20.37	31.47	20.65	31.19
12100	19.33	32.55	20.33	31.55	20.60	31.27
12150	19.32	32.59	20.31	31.60	20.59	31.33
12200	19.38	32.56	20.40	31.55	20.68	31.27
12250	19.41	32.58	20.41	31.57	20.69	31.29
12300	19.43	32.59	20.45	31.56	20.71	31.31

Frequency	Gain(Isotr.) 1 m Aperture	Ant.-Factor 1 m Aperture	Gain(Isotr.) 3 m Aperture	Ant.-Factor 3 m Aperture	Gain(Isotr.) Farfield	Ant.-Factor Farfield
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m
12350	19.48	32.57	20.51	31.55	20.77	31.28
12400	19.53	32.56	20.55	31.54	20.82	31.27
12450	19.53	32.59	20.52	31.60	20.80	31.32
12500	19.52	32.64	20.55	31.61	20.83	31.33
12550	19.52	32.67	20.54	31.65	20.84	31.35
12600	19.49	32.74	20.52	31.70	20.81	31.42
12650	19.49	32.77	20.56	31.70	20.84	31.43
12700	19.44	32.85	20.54	31.76	20.80	31.49
12750	19.47	32.86	20.54	31.79	20.82	31.51
12800	19.48	32.88	20.55	31.81	20.83	31.54
12850	19.49	32.90	20.57	31.83	20.87	31.53
12900	19.50	32.93	20.55	31.88	20.83	31.60
12950	19.56	32.91	20.64	31.82	20.92	31.55
13000	19.56	32.94	20.65	31.85	20.92	31.58
13050	19.55	32.98	20.69	31.85	20.94	31.59
13100	19.57	32.99	20.71	31.86	20.95	31.62
13150	19.55	33.05	20.71	31.89	20.97	31.63
13200	19.55	33.08	20.67	31.96	20.93	31.70
13250	19.49	33.17	20.65	32.02	20.91	31.75
13300	19.54	33.16	20.66	32.04	20.92	31.78
13350	19.50	33.23	20.66	32.07	20.90	31.83
13400	19.57	33.19	20.70	32.06	20.92	31.84
13450	19.53	33.27	20.73	32.07	20.94	31.85
13500	19.65	33.18	20.80	32.02	21.02	31.81
13550	19.63	33.23	20.84	32.01	21.08	31.78
13600	19.77	33.12	20.91	31.98	21.17	31.72
13650	19.74	33.19	20.95	31.97	21.19	31.73
13700	19.86	33.09	21.03	31.92	21.27	31.68
13750	19.83	33.15	21.07	31.91	21.31	31.67
13800	19.91	33.11	21.10	31.92	21.33	31.69
13850	19.82	33.23	21.08	31.97	21.34	31.71
13900	19.89	33.19	21.06	32.02	21.35	31.73
13950	19.80	33.31	21.02	32.09	21.31	31.80
14000	19.81	33.34	20.98	32.16	21.26	31.88
14050	19.73	33.45	20.96	32.22	21.24	31.93
14100	19.75	33.45	20.96	32.24	21.22	31.98
14150	19.69	33.54	20.98	32.25	21.22	32.01
14200	19.72	33.55	20.98	32.28	21.24	32.02
14250	19.71	33.58	21.00	32.30	21.27	32.02
14300	19.74	33.59	21.03	32.30	21.31	32.02
14350	19.75	33.61	21.04	32.32	21.33	32.03
14400	19.76	33.62	21.06	32.33	21.33	32.05
14450	19.76	33.66	21.07	32.35	21.33	32.08
14500	19.74	33.71	21.07	32.38	21.33	32.11
14550	19.71	33.77	21.03	32.44	21.30	32.17
14600	19.67	33.84	21.00	32.51	21.29	32.22
14650	19.66	33.87	20.95	32.58	21.26	32.28
14700	19.63	33.93	20.93	32.63	21.25	32.31
14750	19.65	33.94	20.92	32.68	21.22	32.38
14800	19.63	33.99	20.93	32.69	21.23	32.40
14850	19.68	33.97	20.96	32.69	21.24	32.41
14900	19.65	34.03	21.00	32.68	21.26	32.42
14950	19.72	33.99	21.02	32.70	21.27	32.44

Frequency	Gain(Isotr.) 1 m Aperture	Ant.-Factor 1 m Aperture	Gain(Isotr.) 3 m Aperture	Ant.-Factor 3 m Aperture	Gain(Isotr.) Farfield	Ant.-Factor Farfield
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m
15000	19.69	34.06	21.05	32.70	21.32	32.42
15050	19.74	34.03	21.05	32.72	21.33	32.44
15100	19.71	34.09	21.08	32.72	21.35	32.45
15150	19.74	34.09	21.08	32.75	21.35	32.48
15200	19.66	34.19	21.07	32.78	21.35	32.51
15250	19.70	34.18	21.07	32.81	21.33	32.55
15300	19.62	34.29	21.05	32.86	21.32	32.59
15350	19.63	34.31	20.98	32.96	21.26	32.68
15400	19.57	34.40	20.98	32.99	21.23	32.74
15450	19.59	34.41	20.95	33.05	21.20	32.79
15500	19.51	34.52	20.92	33.11	21.16	32.86
15550	19.51	34.54	20.90	33.15	21.14	32.91
15600	19.47	34.62	20.88	33.20	21.14	32.95
15650	19.45	34.66	20.85	33.27	21.12	32.99
15700	19.41	34.73	20.82	33.32	21.10	33.04
15750	19.40	34.76	20.80	33.37	21.10	33.07
15800	19.39	34.80	20.80	33.39	21.09	33.11
15850	19.39	34.83	20.83	33.39	21.10	33.12
15900	19.39	34.85	20.82	33.43	21.10	33.14
15950	19.38	34.90	20.85	33.43	21.13	33.15
16000	19.40	34.90	20.83	33.47	21.13	33.17
16050	19.35	34.98	20.78	33.55	21.10	33.23
16100	19.35	35.01	20.76	33.60	21.06	33.29
16150	19.30	35.09	20.74	33.65	21.05	33.33
16200	19.33	35.08	20.71	33.70	21.02	33.39
16250	19.27	35.17	20.72	33.72	21.00	33.43
16300	19.32	35.14	20.74	33.72	21.02	33.44
16350	19.27	35.22	20.73	33.76	21.03	33.46
16400	19.36	35.16	20.75	33.76	21.05	33.47
16450	19.29	35.25	20.74	33.81	21.03	33.51
16500	19.35	35.22	20.74	33.83	21.03	33.54
16550	19.28	35.32	20.76	33.84	21.03	33.56
16600	19.34	35.29	20.76	33.86	21.03	33.59
16650	19.23	35.42	20.75	33.90	21.01	33.64
16700	19.28	35.39	20.75	33.92	21.02	33.66
16750	19.21	35.49	20.73	33.97	20.99	33.71
16800	19.25	35.47	20.70	34.03	20.95	33.77
16850	19.19	35.57	20.68	34.07	20.92	33.83
16900	19.22	35.56	20.66	34.12	20.88	33.90
16950	19.19	35.61	20.67	34.14	20.88	33.93
17000	19.19	35.64	20.65	34.17	20.89	33.94
17050	19.17	35.69	20.64	34.22	20.85	34.01
17100	19.15	35.73	20.63	34.25	20.82	34.06
17150	19.16	35.75	20.64	34.27	20.83	34.07
17200	19.11	35.82	20.60	34.33	20.81	34.12
17250	19.12	35.83	20.60	34.35	20.80	34.16
17300	19.09	35.89	20.59	34.39	20.82	34.16
17350	19.14	35.86	20.60	34.40	20.83	34.17
17400	19.07	35.96	20.59	34.44	20.82	34.21
17450	19.10	35.96	20.56	34.50	20.80	34.26
17500	18.59	36.49	20.03	35.05	20.24	34.84
17550	18.57	36.54	19.99	35.12	20.20	34.91
17600	18.42	36.71	19.91	35.22	20.16	34.97

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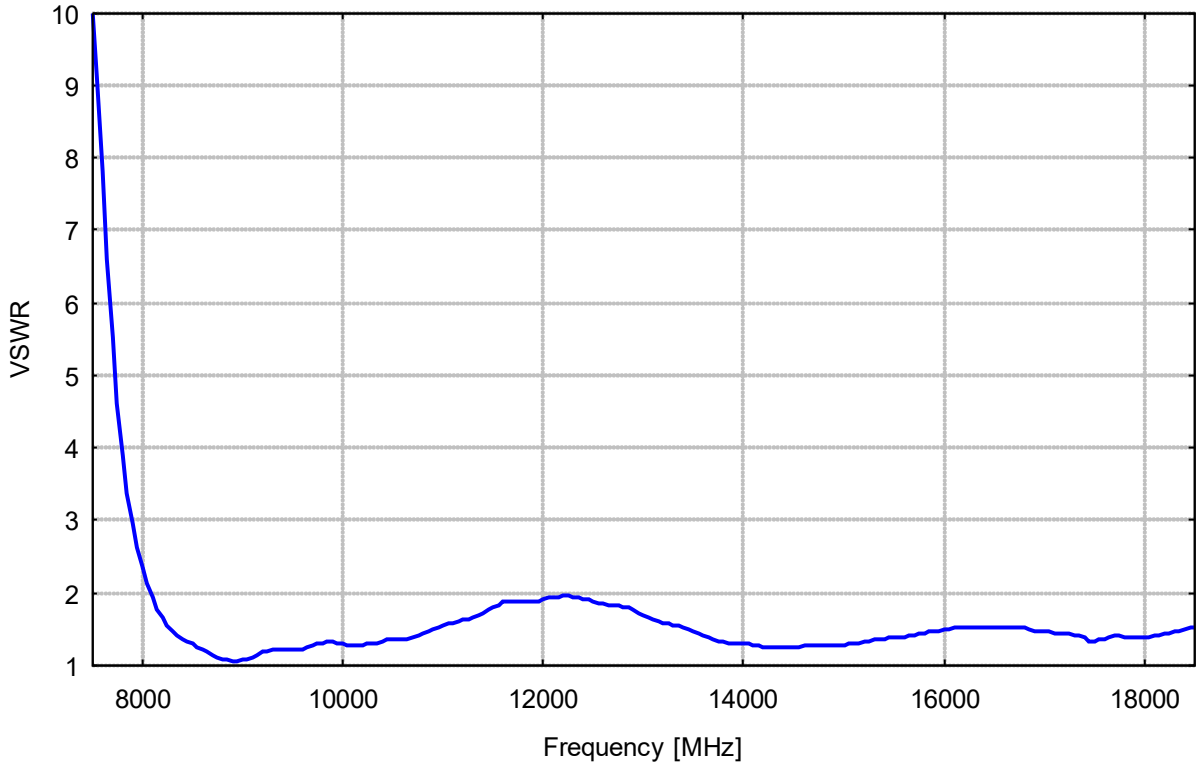
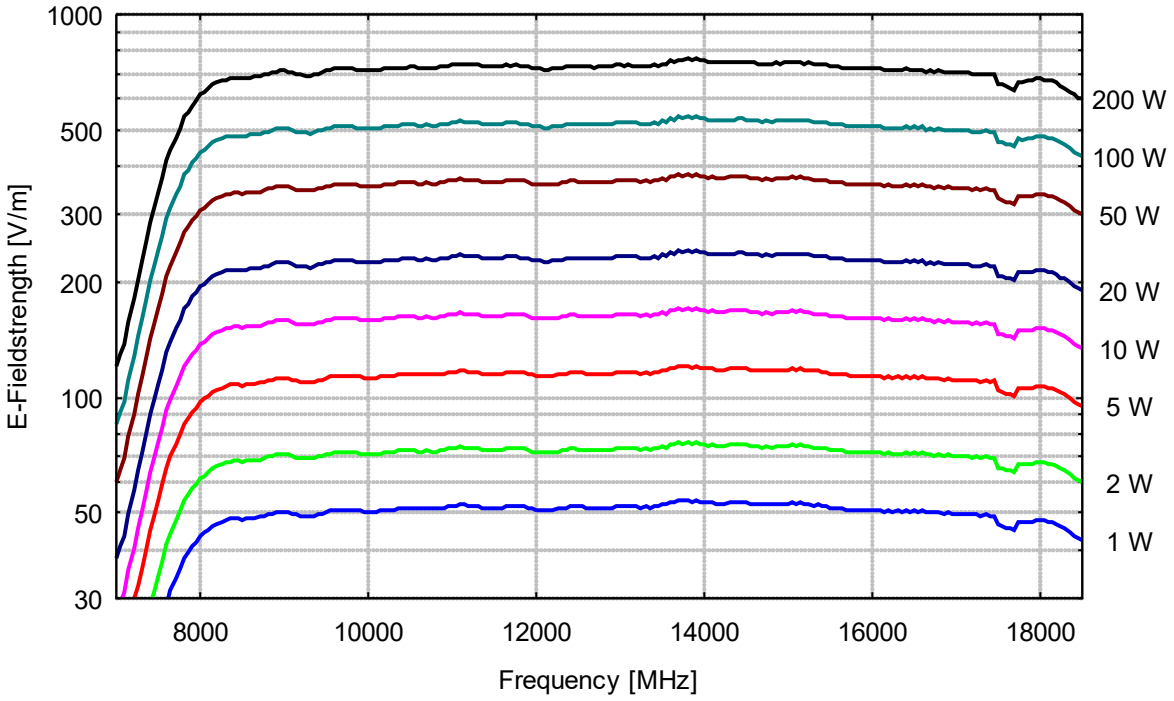
Frequency	Gain(Isotr.) 1 m Aperture	Ant.-Factor 1 m Aperture	Gain(Isotr.) 3 m Aperture	Ant.-Factor 3 m Aperture	Gain(Isotr.) Farfield	Ant.-Factor Farfield
MHz	dBi	dB/m	dBi	dB/m	dBi	dB/m
17650	18.41	36.75	19.87	35.28	20.12	35.03
17700	18.30	36.88	19.85	35.32	20.10	35.08
17750	18.72	36.48	20.31	34.89	20.58	34.62
17800	18.71	36.52	20.32	34.90	20.59	34.64
17850	18.77	36.48	20.35	34.91	20.61	34.65
17900	18.75	36.53	20.29	34.99	20.56	34.72
17950	18.83	36.48	20.32	34.99	20.57	34.73
18000	18.84	36.49	20.34	34.99	20.62	34.71
18050	18.82	36.53	20.28	35.07	20.58	34.77
18100	18.78	36.60	20.29	35.08	20.56	34.81
18150	18.73	36.67	20.32	35.08	20.59	34.81
18200	18.64	36.78	20.24	35.18	20.53	34.89
18250	18.50	36.94	20.14	35.30	20.41	35.04
18300	18.40	37.07	20.06	35.41	20.34	35.13
18350	18.20	37.29	19.85	35.64	20.14	35.35
18400	18.01	37.51	19.66	35.86	19.95	35.57
18450	17.88	37.66	19.55	35.99	19.85	35.69
18500	17.81	37.75	19.45	36.11	19.75	35.82

Stehwellenverhältnis
Voltage Standing Wave Ratio

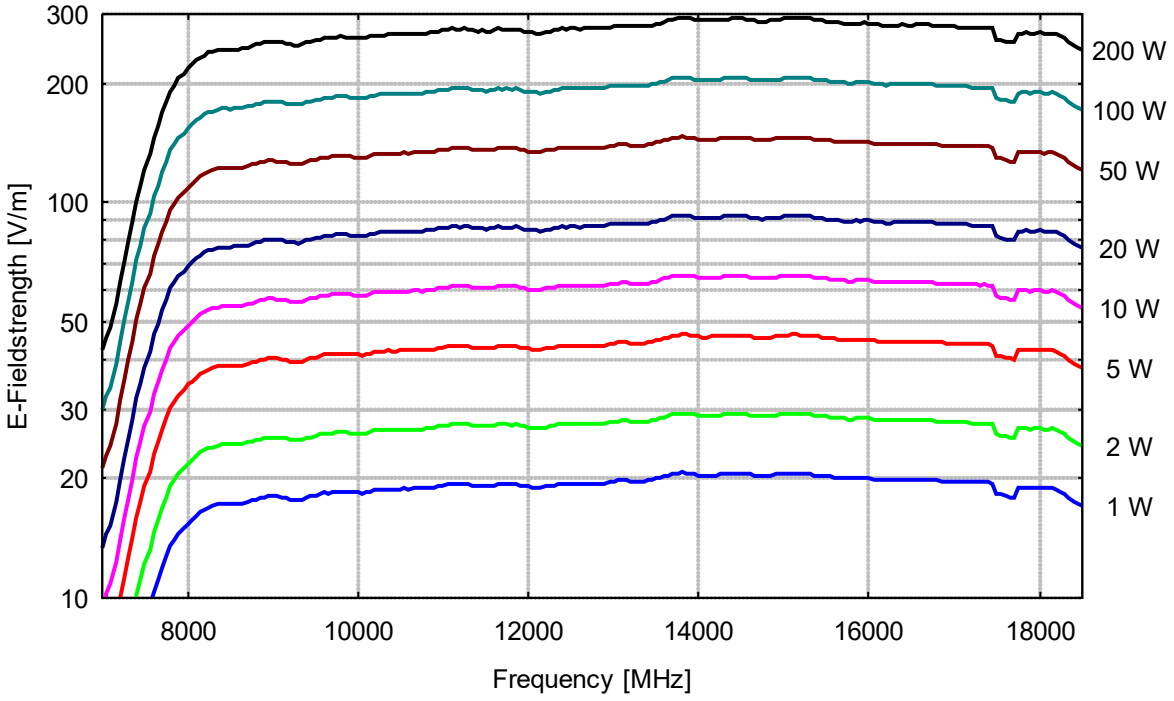


Erzeugte Feldstärke
Generated Fieldstrength

Distance Tip-EuT: 1 m



Distance Tip-EuT: 3 m



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Halbwertsbreite (3 dB Öffnungswinkel)
Half-Power Beamwidth