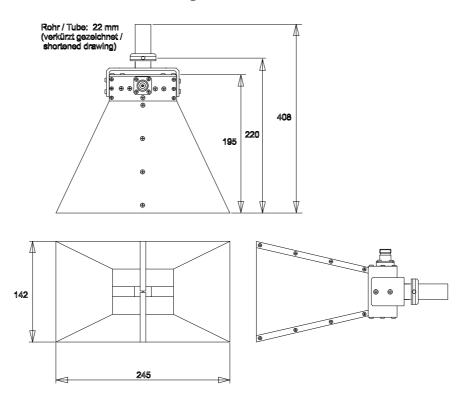


Doppelsteg Breitband Hornantenne Double Ridged Broadband Horn



Beschreibung:

Linear polarisierte Doppelsteg Breitband Hornantenne in Aluminiumausführung für Empfangs- und Sendeanwendungen.

Description:

Linear polarized Double Ridged Broadband Horn Antenna (Aluminium) for Receive and Transmit Applications.

Technische Daten:		Specifications:
Frequenzbereich, nominell:	1 GHz18 GHz	Nominal Frequency Range:
Nutzbarer Frequenzbereich:	800 MHz 18 GHz	Usable Frequency Range:
Isotropgewinn:	6 18 dBi	Isotropic Gain:
Antennenfaktor:	24 50 dB/m	Antenna Factor:
Impedanz, nominell:	50 Ω	Nominal Impedance:
Stehwellenverhältnis SWR typisch:	≈1.5	Standing Wave Ratio SWR typical:
Vor- Rückverhältnis:	> 25 dB (f > 1.3 GHz)	Front to Back Ratio:
Polarisationsentkopplung:	> 25 dB (1 GHz18 GHz)	Cross Polarisation:
3 dB Öffnungswinkel typ.(E-Ebene):	90°-10°	3 dB Beamwidth typ. (E-Plane):
3 dB Öffnungswinkel typ.(H- Ebene):	60°-10°	3 dB Beamwidth typ. (H-Plane):
Max. Eingangsleistung:	<i>see diagram</i> siehe Diagramm	Max. Input Power:
Anschlußart: N-Buchse		N-Connector female
Halterung: 22 mm Rohr, Rastring		Mount: 22 mm Tube, Indexing Ring
Breite x Länge x Dicke:	245 x 195 (408) x 142 mm	Width x Length x Thickness:
Gewicht:	1.3 kg	Weight:



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Frequency	Gain(Isotr.)	AntFactor
[GHz]	[dBi]	[dB/m]
0.8	2.52	25.76
0.8	5.09	24.21
1.0	5.97	24.25
1.1	6.88	24.16
1.2	7.46	24.35
1.3	7.47	25.03
1.4	8.00	25.14
1.5	8.84	24.90
1.6	9.44	24.86
1.7	10.13	24.69
1.8	10.35	24.97
1.9	10.45	25.35
2.0	10.35	25.89
2.1	9.53	27.14
2.2	9.24	27.83
2.3	9.65	27.80
2.4	10.20	27.62
2.5	10.60	27.58
2.6	10.77	27.75
2.7	10.97	27.88
2.8	11.26	27.90
2.9	11.45	28.02
3.0	11.52	28.24
3.1	11.66	28.39
3.2	12.12	28.21
3.3	12.78	27.81
3.4	12.96	27.89
3.5	12.61	28.50
3.6	12.56	28.79
3.7	12.69	28.90
3.8	12.75	29.07
3.9	12.67	29.37
4.0	12.60	29.66
4.1	12.63	29.84
4.2	12.70	29.99
4.3	12.73	30.16
4.4	12.71	30.38
4.5	12.71	30.62
4.6	12.66	30.81
4.7	12.56	31.10
4.7	12.58	31.10
4.0	12.56	31.41
	12.65	
5.0		31.55
5.2	12.86	31.68
5.4	13.13	31.74

[GHz] [dBi] [dB/m] 5.6 13.15 32.03 5.8 13.09 32.40 6.0 13.00 32.78 6.2 12.83 33.24 6.4 12.35 34.00 6.6 12.14 34.47 6.8 12.33 34.54 7.0 11.65 35.47 7.2 10.84 36.53 7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63 18.0 8.87 46.46	Frequency	Gain(Isotr.)	AntFactor
5.8 13.09 32.40 6.0 13.00 32.78 6.2 12.83 33.24 6.4 12.35 34.00 6.6 12.14 34.47 6.8 12.33 34.54 7.0 11.65 35.47 7.2 10.84 36.53 7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.5 12.23 <t< td=""><td></td><td>[dBi]</td><td></td></t<>		[dBi]	
6.0 13.00 32.78 6.2 12.83 33.24 6.4 12.35 34.00 6.6 12.14 34.47 6.8 12.33 34.54 7.0 11.65 35.47 7.2 10.84 36.53 7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.5 12.23 39.21 12.0 13.18 <	5.6	13.15	32.03
6.2 12.83 33.24 6.4 12.35 34.00 6.6 12.14 34.47 6.8 12.33 34.54 7.0 11.65 35.47 7.2 10.84 36.53 7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.51 12.5 13.86	5.8	13.09	32.40
6.4 12.35 34.00 6.6 12.14 34.47 6.8 12.33 34.54 7.0 11.65 35.47 7.2 10.84 36.53 7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86	6.0	13.00	32.78
6.6 12.14 34.47 6.8 12.33 34.54 7.0 11.65 35.47 7.2 10.84 36.53 7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.5 12.75	6.2	12.83	33.24
6.8 12.33 34.54 7.0 11.65 35.47 7.2 10.84 36.53 7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.5 12.75 40.08 14.0 11.68	6.4	12.35	34.00
7.0 11.65 35.47 7.2 10.84 36.53 7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55	6.6	12.14	34.47
7.2 10.84 36.53 7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 40.19 15.5 16.15	6.8	12.33	34.54
7.4 11.01 36.59 7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 40.19 15.5 16.15 37.87 16.0 17.24	7.0	11.65	35.47
7.6 11.46 36.38 7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 40.19 15.5 16.15 37.87 16.0 17.24	7.2	10.84	36.53
7.8 11.44 36.62 8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28	7.4	11.01	36.59
8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	7.6	11.46	36.38
8.0 11.26 37.02 8.2 11.82 36.67 8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	7.8	11.44	36.62
8.4 12.02 36.69 8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 40.19 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 <td>8.0</td> <td></td> <td>37.02</td>	8.0		37.02
8.6 11.71 37.20 8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	8.2	11.82	36.67
8.8 11.59 37.52 9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	8.4	12.02	36.69
9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	8.6	11.71	37.20
9.0 11.89 37.41 9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	8.8	11.59	37.52
9.2 11.74 37.76 9.4 11.59 38.09 9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 40.19 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	9.0	11.89	37.41
9.6 11.94 37.92 9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	9.2	11.74	
9.8 11.86 38.19 10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	9.4	11.59	38.09
10.0 12.09 38.13 10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	9.6	11.94	37.92
10.5 11.66 38.99 11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	9.8	11.86	38.19
11.0 11.52 39.53 11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	10.0	12.09	38.13
11.5 12.23 39.21 12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	10.5	11.66	38.99
12.0 13.18 38.63 12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	11.0	11.52	39.53
12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	11.5	12.23	39.21
12.5 13.86 38.30 13.0 13.60 38.90 13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	12.0	13.18	38.63
13.5 12.75 40.08 14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63		13.86	
14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	13.0		38.90
14.0 11.68 41.46 14.5 11.55 41.90 15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	13.5		40.08
15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	14.0	11.68	41.46
15.0 13.55 40.19 15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63		11.55	41.90
15.5 16.15 37.87 16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63	15.0	13.55	
16.0 17.24 37.06 16.5 16.28 38.29 17.0 15.08 39.75 17.5 13.45 41.63		16.15	37.87
17.0 15.08 39.75 17.5 13.45 41.63	16.0	17.24	
17.0 15.08 39.75 17.5 13.45 41.63	16.5	16.28	38.29
17.5 13.45 41.63			
1 .5.5 5.57 15.70	18.0	8.87	46.46

Kalibrier-Messunsicherheit (k=2): Frequenzbereich f < 10 GHz: Freguenzbereich 10 GHz < f < 20 GHz Calibration Uncertainty (k=2): Frequency range f < 10 GHz Frequency range 10 GHz< f < 20 GHz

+/- 1.0 dB

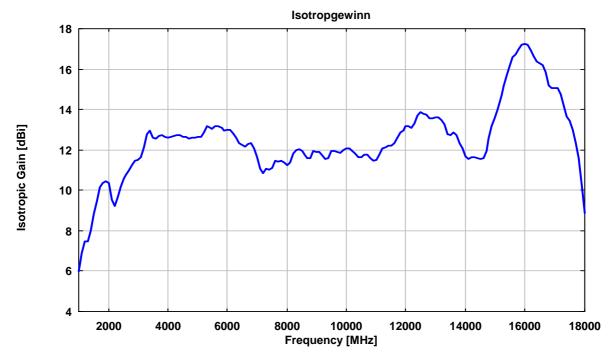
+/- 1.5 dB

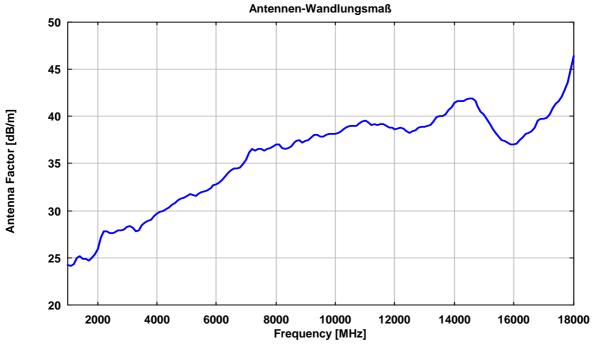


BBHA 9120 D



Kalibrierbezugspunkt: Mitte zwischen Aperturöffnung und N-Buchse (= 9 cm hinter Vorderkante) Calibration Reference Point: Center between N-Connector and Aperture-Plane (=9 cm behind Apt. Plane)

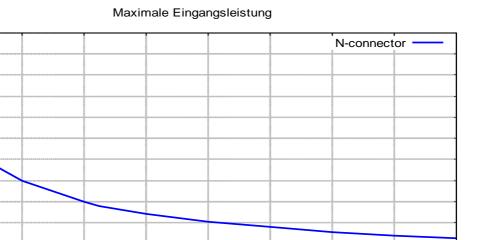






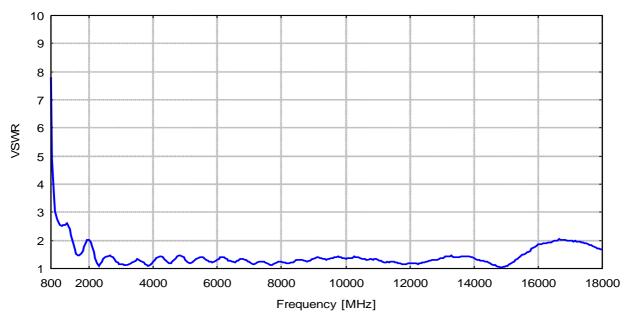
Max. Input Power [W]

BBHA 9120 D



VSWR-Plot BBHA 9120 D

Frequency [MHz]





SCHWARZBECK MESS - ELEKTRONIK OHG

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