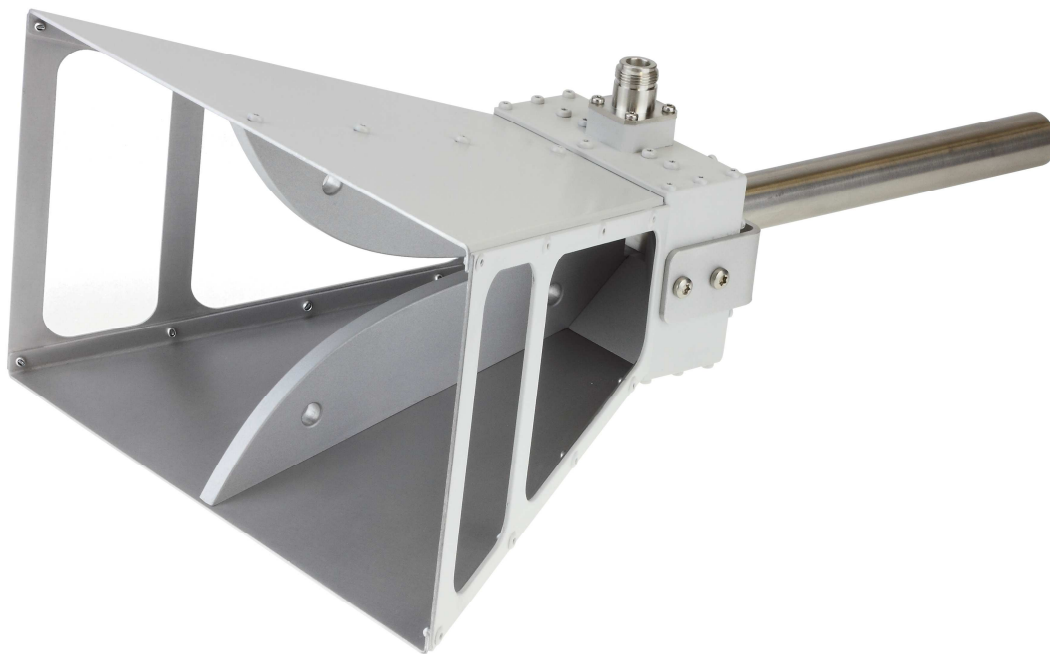


**Doppelsteg Breitband Hornantenne**  
*Double Ridge Broadband Horn*



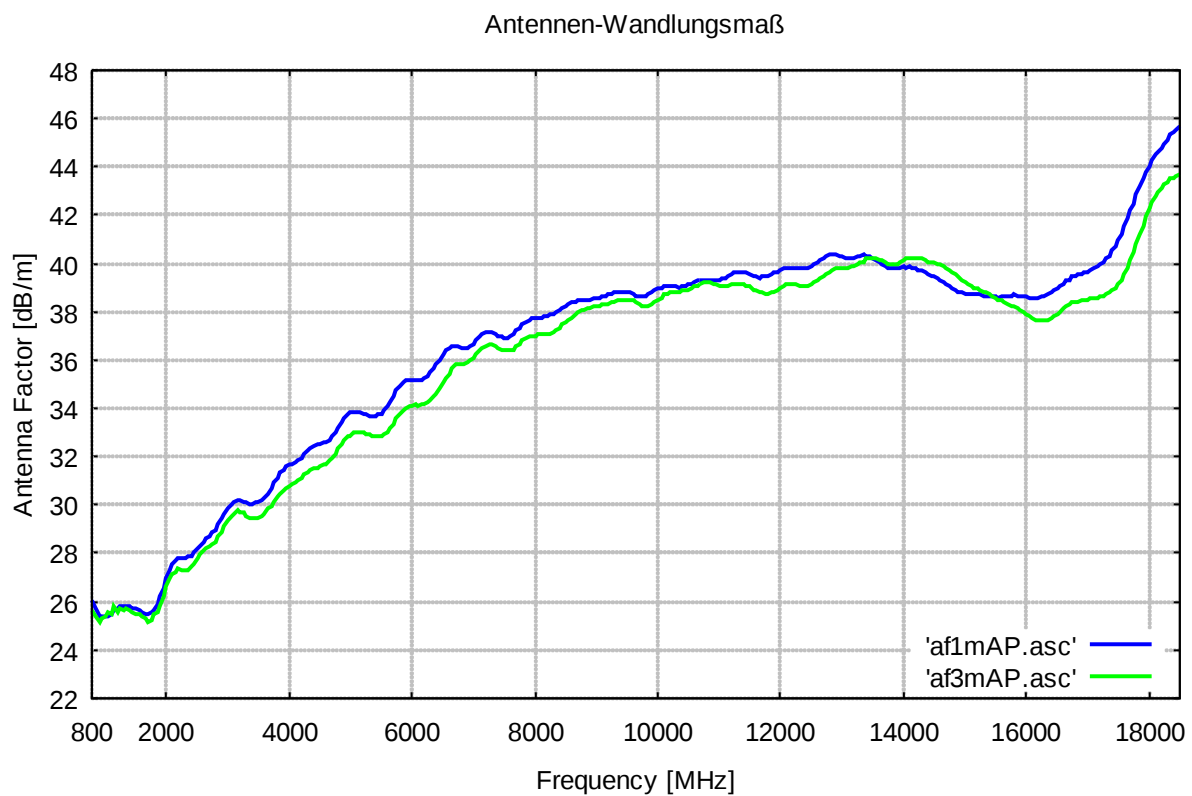
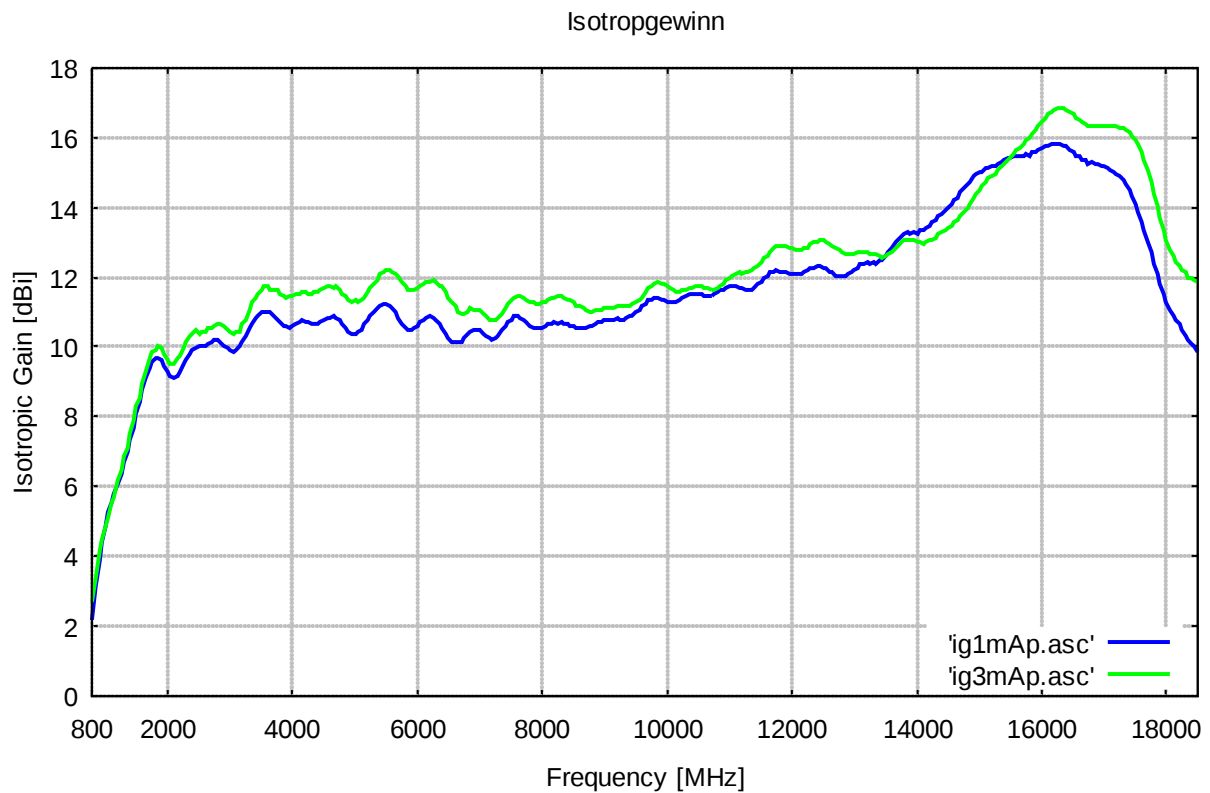
**Beschreibung:**

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

**Description:**

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

| <b>Technische Daten:</b>           |                               | <b>Specifications:</b>           |
|------------------------------------|-------------------------------|----------------------------------|
| Frequenzbereich, nominell:         | 1 GHz...18 GHz                | Nominal Frequency Range:         |
| Nutzbarer Frequenzbereich:         | 800 MHz ... 18 GHz            | Usable Frequency Range:          |
| Isotropiegewinn:                   | 5 ... 17 dBi                  | Isotropic Gain:                  |
| Antennenfaktor:                    | 25 ... 44 dB/m                | Antenna Factor:                  |
| Impedanz, nominell:                | 50 $\Omega$                   | Nominal Impedance:               |
| Stehwellenverhältnis SWR typisch:  | $\approx 1.5$                 | Standing Wave Ratio SWR typical: |
| Vor- Rückverhältnis:               | > 25 dB ( $f > 1.3$ GHz)      | Front to Back Ratio:             |
| Polarisationsentkopplung:          | > 25 dB (1 GHz...18 GHz)      | Cross Polarisation:              |
| 3 dB Öffnungswinkel typ.(E-Ebene): | 90°-8°                        | 3 dB Beamwidth typ. (E-Plane):   |
| 3 dB Öffnungswinkel typ.(H-Ebene): | 60°-7°                        | 3 dB Beamwidth typ. (H-Plane):   |
| Max. Eingangsleistung:             | see diagram<br>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:            | 250 x 195 (408) x 142 mm      | Width x Length x Thickness:      |
| Gewicht:                           | 1.4 kg                        | Weight:                          |



| Frequency | Gain(Isotr.)<br>1 m Ap. | Ant.-Factor<br>1 m Ap. | Gain(Isotr.)<br>3 m Ap. | Ant.-Factor<br>3 m Ap. | Gain(Isotr.)<br>farfield | Ant.-Factor<br>farfield |
|-----------|-------------------------|------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| MHz       | dBi                     | dB/m                   | dBi                     | dB/m                   | dBi                      | dB/m                    |
| 800.00    | 2.19                    | 26.09                  | 2.68                    | 25.61                  | 1.85                     | 26.43                   |
| 850.00    | 3.12                    | 25.69                  | 3.40                    | 25.41                  | 2.66                     | 26.15                   |
| 900.00    | 3.89                    | 25.42                  | 4.18                    | 25.13                  | 3.68                     | 25.63                   |
| 950.00    | 4.40                    | 25.37                  | 4.48                    | 25.29                  | 4.42                     | 25.35                   |
| 1000.00   | 4.87                    | 25.35                  | 4.85                    | 25.37                  | 4.48                     | 25.74                   |
| 1050.00   | 5.25                    | 25.40                  | 5.09                    | 25.55                  | 4.91                     | 25.73                   |
| 1100.00   | 5.54                    | 25.51                  | 5.56                    | 25.48                  | 5.41                     | 25.64                   |
| 1150.00   | 5.79                    | 25.65                  | 5.66                    | 25.77                  | 5.67                     | 25.77                   |
| 1200.00   | 6.09                    | 25.71                  | 6.21                    | 25.59                  | 6.21                     | 25.59                   |
| 1250.00   | 6.35                    | 25.80                  | 6.46                    | 25.69                  | 6.51                     | 25.65                   |
| 1300.00   | 6.69                    | 25.81                  | 6.88                    | 25.62                  | 6.87                     | 25.63                   |
| 1350.00   | 6.99                    | 25.84                  | 7.09                    | 25.74                  | 7.32                     | 25.51                   |
| 1400.00   | 7.32                    | 25.82                  | 7.52                    | 25.62                  | 7.64                     | 25.50                   |
| 1450.00   | 7.70                    | 25.75                  | 7.92                    | 25.53                  | 7.94                     | 25.51                   |
| 1500.00   | 8.06                    | 25.68                  | 8.29                    | 25.45                  | 8.53                     | 25.21                   |
| 1550.00   | 8.42                    | 25.60                  | 8.56                    | 25.47                  | 8.78                     | 25.24                   |
| 1600.00   | 8.78                    | 25.52                  | 8.95                    | 25.35                  | 9.17                     | 25.13                   |
| 1650.00   | 9.09                    | 25.48                  | 9.30                    | 25.27                  | 9.42                     | 25.15                   |
| 1700.00   | 9.37                    | 25.46                  | 9.67                    | 25.16                  | 9.76                     | 25.07                   |
| 1750.00   | 9.55                    | 25.53                  | 9.83                    | 25.25                  | 10.03                    | 25.05                   |
| 1800.00   | 9.66                    | 25.67                  | 9.90                    | 25.43                  | 10.21                    | 25.12                   |
| 1850.00   | 9.69                    | 25.87                  | 10.03                   | 25.53                  | 10.14                    | 25.42                   |
| 1900.00   | 9.61                    | 26.19                  | 9.96                    | 25.83                  | 10.14                    | 25.65                   |
| 1950.00   | 9.46                    | 26.56                  | 9.79                    | 26.24                  | 9.91                     | 26.11                   |
| 2000.00   | 9.30                    | 26.94                  | 9.60                    | 26.64                  | 10.00                    | 26.24                   |
| 2050.00   | 9.16                    | 27.30                  | 9.50                    | 26.95                  | 9.90                     | 26.56                   |
| 2100.00   | 9.13                    | 27.54                  | 9.50                    | 27.16                  | 9.77                     | 26.90                   |
| 2150.00   | 9.19                    | 27.68                  | 9.66                    | 27.21                  | 9.77                     | 27.10                   |
| 2200.00   | 9.29                    | 27.78                  | 9.73                    | 27.34                  | 9.91                     | 27.16                   |
| 2250.00   | 9.49                    | 27.78                  | 9.98                    | 27.29                  | 10.06                    | 27.20                   |
| 2300.00   | 9.65                    | 27.80                  | 10.15                   | 27.31                  | 10.37                    | 27.09                   |
| 2350.00   | 9.81                    | 27.84                  | 10.32                   | 27.32                  | 10.34                    | 27.30                   |
| 2400.00   | 9.91                    | 27.91                  | 10.38                   | 27.44                  | 10.45                    | 27.37                   |
| 2450.00   | 9.96                    | 28.04                  | 10.46                   | 27.54                  | 10.48                    | 27.52                   |
| 2500.00   | 10.00                   | 28.18                  | 10.40                   | 27.78                  | 10.55                    | 27.63                   |
| 2550.00   | 10.04                   | 28.31                  | 10.41                   | 27.94                  | 10.51                    | 27.85                   |
| 2600.00   | 10.03                   | 28.49                  | 10.42                   | 28.10                  | 10.59                    | 27.92                   |
| 2650.00   | 10.09                   | 28.60                  | 10.52                   | 28.17                  | 10.58                    | 28.11                   |
| 2700.00   | 10.12                   | 28.73                  | 10.56                   | 28.29                  | 10.63                    | 28.22                   |
| 2750.00   | 10.18                   | 28.83                  | 10.62                   | 28.39                  | 10.62                    | 28.39                   |
| 2800.00   | 10.19                   | 28.98                  | 10.68                   | 28.48                  | 10.68                    | 28.48                   |
| 2850.00   | 10.12                   | 29.19                  | 10.63                   | 28.68                  | 10.70                    | 28.62                   |
| 2900.00   | 10.05                   | 29.42                  | 10.62                   | 28.84                  | 10.83                    | 28.64                   |
| 2950.00   | 9.97                    | 29.64                  | 10.51                   | 29.11                  | 10.64                    | 28.97                   |
| 3000.00   | 9.90                    | 29.86                  | 10.41                   | 29.35                  | 10.58                    | 29.18                   |
| 3050.00   | 9.88                    | 30.03                  | 10.35                   | 29.56                  | 10.50                    | 29.40                   |
| 3100.00   | 9.92                    | 30.13                  | 10.44                   | 29.60                  | 10.67                    | 29.37                   |
| 3150.00   | 10.00                   | 30.18                  | 10.45                   | 29.74                  | 10.79                    | 29.40                   |
| 3200.00   | 10.14                   | 30.18                  | 10.65                   | 29.68                  | 10.91                    | 29.42                   |
| 3250.00   | 10.33                   | 30.13                  | 10.80                   | 29.66                  | 10.99                    | 29.47                   |
| 3300.00   | 10.52                   | 30.07                  | 11.08                   | 29.51                  | 11.18                    | 29.41                   |
| 3350.00   | 10.68                   | 30.04                  | 11.28                   | 29.44                  | 11.33                    | 29.39                   |
| 3400.00   | 10.84                   | 30.01                  | 11.42                   | 29.43                  | 11.54                    | 29.31                   |

| Frequency | Gain(Isotr.)<br>1 m Ap. | Ant.-Factor<br>1 m Ap. | Gain(Isotr.)<br>3 m Ap. | Ant.-Factor<br>3 m Ap. | Gain(Isotr.)<br>farfield | Ant.-Factor<br>farfield |
|-----------|-------------------------|------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| MHz       | dBi                     | dB/m                   | dBi                     | dB/m                   | dBi                      | dB/m                    |
| 3450.00   | 10.91                   | 30.07                  | 11.51                   | 29.47                  | 11.60                    | 29.38                   |
| 3500.00   | 11.00                   | 30.10                  | 11.65                   | 29.45                  | 11.63                    | 29.47                   |
| 3550.00   | 11.03                   | 30.19                  | 11.72                   | 29.50                  | 11.66                    | 29.56                   |
| 3600.00   | 11.03                   | 30.31                  | 11.74                   | 29.61                  | 11.58                    | 29.77                   |
| 3650.00   | 10.99                   | 30.48                  | 11.65                   | 29.82                  | 11.66                    | 29.80                   |
| 3700.00   | 10.89                   | 30.69                  | 11.63                   | 29.95                  | 11.61                    | 29.97                   |
| 3750.00   | 10.78                   | 30.92                  | 11.62                   | 30.08                  | 11.53                    | 30.17                   |
| 3800.00   | 10.69                   | 31.12                  | 11.49                   | 30.33                  | 11.44                    | 30.37                   |
| 3850.00   | 10.61                   | 31.32                  | 11.44                   | 30.48                  | 11.41                    | 30.52                   |
| 3900.00   | 10.58                   | 31.47                  | 11.43                   | 30.61                  | 11.42                    | 30.62                   |
| 3950.00   | 10.57                   | 31.59                  | 11.45                   | 30.71                  | 11.52                    | 30.64                   |
| 4000.00   | 10.62                   | 31.64                  | 11.46                   | 30.80                  | 11.59                    | 30.67                   |
| 4050.00   | 10.68                   | 31.68                  | 11.51                   | 30.86                  | 11.66                    | 30.71                   |
| 4100.00   | 10.74                   | 31.74                  | 11.54                   | 30.93                  | 11.79                    | 30.69                   |
| 4150.00   | 10.75                   | 31.83                  | 11.60                   | 30.98                  | 11.81                    | 30.77                   |
| 4200.00   | 10.73                   | 31.96                  | 11.59                   | 31.10                  | 11.78                    | 30.90                   |
| 4250.00   | 10.71                   | 32.08                  | 11.54                   | 31.25                  | 11.74                    | 31.05                   |
| 4300.00   | 10.67                   | 32.22                  | 11.53                   | 31.36                  | 11.76                    | 31.13                   |
| 4350.00   | 10.64                   | 32.35                  | 11.56                   | 31.43                  | 11.71                    | 31.28                   |
| 4400.00   | 10.67                   | 32.42                  | 11.58                   | 31.51                  | 11.75                    | 31.34                   |
| 4450.00   | 10.70                   | 32.49                  | 11.65                   | 31.54                  | 11.70                    | 31.48                   |
| 4500.00   | 10.76                   | 32.52                  | 11.69                   | 31.59                  | 11.72                    | 31.57                   |
| 4550.00   | 10.83                   | 32.55                  | 11.72                   | 31.66                  | 11.79                    | 31.59                   |
| 4600.00   | 10.84                   | 32.63                  | 11.76                   | 31.71                  | 11.83                    | 31.64                   |
| 4650.00   | 10.87                   | 32.70                  | 11.71                   | 31.86                  | 11.82                    | 31.75                   |
| 4700.00   | 10.83                   | 32.83                  | 11.72                   | 31.94                  | 11.75                    | 31.91                   |
| 4750.00   | 10.76                   | 33.00                  | 11.64                   | 32.11                  | 11.65                    | 32.10                   |
| 4800.00   | 10.66                   | 33.19                  | 11.53                   | 32.32                  | 11.66                    | 32.19                   |
| 4850.00   | 10.55                   | 33.39                  | 11.44                   | 32.49                  | 11.61                    | 32.32                   |
| 4900.00   | 10.45                   | 33.57                  | 11.37                   | 32.66                  | 11.53                    | 32.49                   |
| 4950.00   | 10.40                   | 33.71                  | 11.30                   | 32.81                  | 11.47                    | 32.64                   |
| 5000.00   | 10.40                   | 33.80                  | 11.32                   | 32.88                  | 11.39                    | 32.81                   |
| 5050.00   | 10.44                   | 33.85                  | 11.29                   | 33.00                  | 11.38                    | 32.91                   |
| 5100.00   | 10.51                   | 33.86                  | 11.33                   | 33.04                  | 11.44                    | 32.93                   |
| 5150.00   | 10.63                   | 33.83                  | 11.41                   | 33.04                  | 11.52                    | 32.94                   |
| 5200.00   | 10.76                   | 33.78                  | 11.55                   | 32.99                  | 11.67                    | 32.87                   |
| 5250.00   | 10.88                   | 33.74                  | 11.67                   | 32.95                  | 11.75                    | 32.88                   |
| 5300.00   | 11.01                   | 33.69                  | 11.82                   | 32.89                  | 11.89                    | 32.81                   |
| 5350.00   | 11.09                   | 33.69                  | 11.94                   | 32.84                  | 12.01                    | 32.78                   |
| 5400.00   | 11.18                   | 33.69                  | 12.07                   | 32.80                  | 12.15                    | 32.72                   |
| 5450.00   | 11.23                   | 33.72                  | 12.15                   | 32.80                  | 12.29                    | 32.66                   |
| 5500.00   | 11.24                   | 33.79                  | 12.21                   | 32.81                  | 12.31                    | 32.71                   |
| 5550.00   | 11.19                   | 33.91                  | 12.19                   | 32.91                  | 12.25                    | 32.85                   |
| 5600.00   | 11.12                   | 34.07                  | 12.16                   | 33.02                  | 12.26                    | 32.92                   |
| 5650.00   | 10.99                   | 34.27                  | 12.11                   | 33.15                  | 12.21                    | 33.05                   |
| 5700.00   | 10.83                   | 34.50                  | 12.01                   | 33.32                  | 12.19                    | 33.15                   |
| 5750.00   | 10.67                   | 34.74                  | 11.85                   | 33.56                  | 12.05                    | 33.36                   |
| 5800.00   | 10.56                   | 34.93                  | 11.74                   | 33.75                  | 11.88                    | 33.60                   |
| 5850.00   | 10.48                   | 35.08                  | 11.66                   | 33.90                  | 11.81                    | 33.75                   |
| 5900.00   | 10.49                   | 35.15                  | 11.62                   | 34.02                  | 11.80                    | 33.84                   |
| 5950.00   | 10.53                   | 35.18                  | 11.64                   | 34.07                  | 11.79                    | 33.92                   |
| 6000.00   | 10.62                   | 35.16                  | 11.69                   | 34.09                  | 11.86                    | 33.92                   |
| 6050.00   | 10.70                   | 35.15                  | 11.72                   | 34.13                  | 11.90                    | 33.96                   |
| 6100.00   | 10.80                   | 35.12                  | 11.80                   | 34.12                  | 11.95                    | 33.98                   |

| Frequency | Gain(Isotr.)<br>1 m Ap. | Ant.-Factor<br>1 m Ap. | Gain(Isotr.)<br>3 m Ap. | Ant.-Factor<br>3 m Ap. | Gain(Isotr.)<br>farfield | Ant.-Factor<br>farfield |
|-----------|-------------------------|------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| MHz       | dBi                     | dB/m                   | dBi                     | dB/m                   | dBi                      | dB/m                    |
| 6150.00   | 10.84                   | 35.16                  | 11.87                   | 34.13                  | 11.99                    | 34.00                   |
| 6200.00   | 10.86                   | 35.21                  | 11.87                   | 34.20                  | 11.95                    | 34.12                   |
| 6250.00   | 10.82                   | 35.32                  | 11.90                   | 34.24                  | 11.99                    | 34.15                   |
| 6300.00   | 10.75                   | 35.46                  | 11.86                   | 34.35                  | 12.01                    | 34.20                   |
| 6350.00   | 10.65                   | 35.62                  | 11.77                   | 34.50                  | 11.87                    | 34.40                   |
| 6400.00   | 10.54                   | 35.80                  | 11.72                   | 34.62                  | 11.79                    | 34.56                   |
| 6450.00   | 10.40                   | 36.01                  | 11.58                   | 34.83                  | 11.65                    | 34.77                   |
| 6500.00   | 10.27                   | 36.21                  | 11.40                   | 35.08                  | 11.53                    | 34.95                   |
| 6550.00   | 10.17                   | 36.38                  | 11.29                   | 35.25                  | 11.46                    | 35.08                   |
| 6600.00   | 10.13                   | 36.48                  | 11.17                   | 35.44                  | 11.32                    | 35.29                   |
| 6650.00   | 10.12                   | 36.56                  | 11.03                   | 35.65                  | 11.25                    | 35.43                   |
| 6700.00   | 10.16                   | 36.58                  | 10.97                   | 35.78                  | 11.14                    | 35.60                   |
| 6750.00   | 10.26                   | 36.54                  | 10.96                   | 35.84                  | 11.05                    | 35.76                   |
| 6800.00   | 10.35                   | 36.52                  | 11.03                   | 35.84                  | 11.17                    | 35.70                   |
| 6850.00   | 10.44                   | 36.49                  | 11.10                   | 35.83                  | 11.28                    | 35.66                   |
| 6900.00   | 10.48                   | 36.52                  | 11.08                   | 35.92                  | 11.32                    | 35.67                   |
| 6950.00   | 10.48                   | 36.58                  | 11.06                   | 36.00                  | 11.28                    | 35.78                   |
| 7000.00   | 10.46                   | 36.66                  | 11.04                   | 36.08                  | 11.15                    | 35.97                   |
| 7050.00   | 10.39                   | 36.80                  | 10.97                   | 36.21                  | 11.16                    | 36.02                   |
| 7100.00   | 10.30                   | 36.95                  | 10.86                   | 36.38                  | 11.16                    | 36.08                   |
| 7150.00   | 10.25                   | 37.06                  | 10.80                   | 36.51                  | 11.02                    | 36.29                   |
| 7200.00   | 10.22                   | 37.15                  | 10.76                   | 36.60                  | 10.89                    | 36.48                   |
| 7250.00   | 10.26                   | 37.16                  | 10.77                   | 36.65                  | 10.82                    | 36.61                   |
| 7300.00   | 10.33                   | 37.15                  | 10.81                   | 36.68                  | 10.88                    | 36.60                   |
| 7350.00   | 10.46                   | 37.08                  | 10.95                   | 36.59                  | 11.03                    | 36.52                   |
| 7400.00   | 10.58                   | 37.02                  | 11.11                   | 36.49                  | 11.20                    | 36.41                   |
| 7450.00   | 10.72                   | 36.94                  | 11.24                   | 36.43                  | 11.31                    | 36.35                   |
| 7500.00   | 10.80                   | 36.92                  | 11.32                   | 36.40                  | 11.43                    | 36.29                   |
| 7550.00   | 10.87                   | 36.91                  | 11.39                   | 36.39                  | 11.52                    | 36.26                   |
| 7600.00   | 10.86                   | 36.98                  | 11.44                   | 36.39                  | 11.54                    | 36.29                   |
| 7650.00   | 10.83                   | 37.06                  | 11.46                   | 36.44                  | 11.54                    | 36.35                   |
| 7700.00   | 10.75                   | 37.20                  | 11.40                   | 36.55                  | 11.57                    | 36.38                   |
| 7750.00   | 10.69                   | 37.31                  | 11.32                   | 36.69                  | 11.48                    | 36.53                   |
| 7800.00   | 10.61                   | 37.45                  | 11.28                   | 36.78                  | 11.36                    | 36.70                   |
| 7850.00   | 10.57                   | 37.55                  | 11.26                   | 36.86                  | 11.28                    | 36.83                   |
| 7900.00   | 10.54                   | 37.63                  | 11.23                   | 36.94                  | 11.29                    | 36.89                   |
| 7950.00   | 10.54                   | 37.69                  | 11.23                   | 37.00                  | 11.39                    | 36.84                   |
| 8000.00   | 10.57                   | 37.71                  | 11.27                   | 37.01                  | 11.45                    | 36.83                   |
| 8050.00   | 10.59                   | 37.75                  | 11.31                   | 37.03                  | 11.43                    | 36.91                   |
| 8100.00   | 10.64                   | 37.75                  | 11.36                   | 37.03                  | 11.44                    | 36.95                   |
| 8150.00   | 10.66                   | 37.79                  | 11.40                   | 37.05                  | 11.56                    | 36.88                   |
| 8200.00   | 10.69                   | 37.80                  | 11.42                   | 37.08                  | 11.66                    | 36.84                   |
| 8250.00   | 10.68                   | 37.87                  | 11.45                   | 37.10                  | 11.70                    | 36.85                   |
| 8300.00   | 10.70                   | 37.90                  | 11.44                   | 37.16                  | 11.66                    | 36.94                   |
| 8350.00   | 10.67                   | 37.99                  | 11.41                   | 37.25                  | 11.62                    | 37.04                   |
| 8400.00   | 10.66                   | 38.05                  | 11.37                   | 37.33                  | 11.61                    | 37.09                   |
| 8450.00   | 10.60                   | 38.15                  | 11.32                   | 37.44                  | 11.60                    | 37.15                   |
| 8500.00   | 10.59                   | 38.21                  | 11.26                   | 37.54                  | 11.54                    | 37.27                   |
| 8550.00   | 10.55                   | 38.31                  | 11.20                   | 37.66                  | 11.48                    | 37.38                   |
| 8600.00   | 10.54                   | 38.37                  | 11.16                   | 37.75                  | 11.38                    | 37.53                   |
| 8650.00   | 10.53                   | 38.43                  | 11.09                   | 37.87                  | 11.28                    | 37.68                   |
| 8700.00   | 10.53                   | 38.48                  | 11.05                   | 37.96                  | 11.25                    | 37.76                   |
| 8750.00   | 10.58                   | 38.48                  | 11.03                   | 38.03                  | 11.24                    | 37.82                   |
| 8800.00   | 10.62                   | 38.49                  | 11.03                   | 38.08                  | 11.26                    | 37.85                   |

| Frequency | Gain(Isotr.)<br>1 m Ap. | Ant.-Factor<br>1 m Ap. | Gain(Isotr.)<br>3 m Ap. | Ant.-Factor<br>3 m Ap. | Gain(Isotr.)<br>farfield | Ant.-Factor<br>farfield |
|-----------|-------------------------|------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| MHz       | dBi                     | dB/m                   | dBi                     | dB/m                   | dBi                      | dB/m                    |
| 8850.00   | 10.66                   | 38.50                  | 11.04                   | 38.12                  | 11.28                    | 37.88                   |
| 8900.00   | 10.70                   | 38.51                  | 11.08                   | 38.13                  | 11.23                    | 37.98                   |
| 8950.00   | 10.73                   | 38.52                  | 11.07                   | 38.19                  | 11.21                    | 38.04                   |
| 9000.00   | 10.75                   | 38.55                  | 11.11                   | 38.20                  | 11.31                    | 37.99                   |
| 9050.00   | 10.77                   | 38.58                  | 11.11                   | 38.25                  | 11.37                    | 37.98                   |
| 9100.00   | 10.79                   | 38.61                  | 11.13                   | 38.27                  | 11.38                    | 38.02                   |
| 9150.00   | 10.79                   | 38.65                  | 11.13                   | 38.32                  | 11.34                    | 38.11                   |
| 9200.00   | 10.81                   | 38.68                  | 11.16                   | 38.34                  | 11.28                    | 38.22                   |
| 9250.00   | 10.80                   | 38.74                  | 11.17                   | 38.37                  | 11.29                    | 38.25                   |
| 9300.00   | 10.80                   | 38.79                  | 11.16                   | 38.43                  | 11.33                    | 38.26                   |
| 9350.00   | 10.83                   | 38.81                  | 11.16                   | 38.48                  | 11.30                    | 38.34                   |
| 9400.00   | 10.86                   | 38.82                  | 11.19                   | 38.49                  | 11.28                    | 38.41                   |
| 9450.00   | 10.90                   | 38.82                  | 11.22                   | 38.51                  | 11.29                    | 38.44                   |
| 9500.00   | 10.98                   | 38.79                  | 11.28                   | 38.50                  | 11.35                    | 38.42                   |
| 9550.00   | 11.04                   | 38.78                  | 11.35                   | 38.47                  | 11.43                    | 38.39                   |
| 9600.00   | 11.15                   | 38.72                  | 11.43                   | 38.44                  | 11.53                    | 38.34                   |
| 9650.00   | 11.25                   | 38.66                  | 11.56                   | 38.35                  | 11.64                    | 38.27                   |
| 9700.00   | 11.33                   | 38.63                  | 11.68                   | 38.28                  | 11.73                    | 38.23                   |
| 9750.00   | 11.36                   | 38.64                  | 11.77                   | 38.23                  | 11.78                    | 38.22                   |
| 9800.00   | 11.38                   | 38.66                  | 11.82                   | 38.22                  | 11.84                    | 38.20                   |
| 9850.00   | 11.39                   | 38.70                  | 11.86                   | 38.22                  | 11.95                    | 38.13                   |
| 9900.00   | 11.35                   | 38.78                  | 11.81                   | 38.32                  | 12.04                    | 38.09                   |
| 9950.00   | 11.33                   | 38.85                  | 11.78                   | 38.40                  | 12.04                    | 38.13                   |
| 10000.00  | 11.28                   | 38.94                  | 11.73                   | 38.49                  | 11.99                    | 38.23                   |
| 10050.00  | 11.27                   | 39.00                  | 11.69                   | 38.58                  | 11.95                    | 38.31                   |
| 10100.00  | 11.28                   | 39.02                  | 11.62                   | 38.68                  | 11.94                    | 38.36                   |
| 10150.00  | 11.30                   | 39.05                  | 11.59                   | 38.76                  | 11.92                    | 38.43                   |
| 10200.00  | 11.33                   | 39.06                  | 11.58                   | 38.81                  | 11.82                    | 38.57                   |
| 10250.00  | 11.41                   | 39.03                  | 11.66                   | 38.78                  | 11.80                    | 38.64                   |
| 10300.00  | 11.45                   | 39.03                  | 11.65                   | 38.83                  | 11.79                    | 38.69                   |
| 10350.00  | 11.52                   | 39.00                  | 11.69                   | 38.83                  | 11.78                    | 38.74                   |
| 10400.00  | 11.52                   | 39.04                  | 11.70                   | 38.86                  | 11.82                    | 38.74                   |
| 10450.00  | 11.54                   | 39.07                  | 11.75                   | 38.85                  | 11.83                    | 38.77                   |
| 10500.00  | 11.53                   | 39.12                  | 11.75                   | 38.90                  | 11.85                    | 38.79                   |
| 10550.00  | 11.51                   | 39.17                  | 11.73                   | 38.96                  | 11.84                    | 38.85                   |
| 10600.00  | 11.48                   | 39.25                  | 11.67                   | 39.06                  | 11.75                    | 38.98                   |
| 10650.00  | 11.47                   | 39.30                  | 11.68                   | 39.09                  | 11.74                    | 39.03                   |
| 10700.00  | 11.47                   | 39.34                  | 11.64                   | 39.17                  | 11.78                    | 39.03                   |
| 10750.00  | 11.51                   | 39.34                  | 11.66                   | 39.19                  | 11.84                    | 39.00                   |
| 10800.00  | 11.56                   | 39.33                  | 11.67                   | 39.22                  | 11.85                    | 39.04                   |
| 10850.00  | 11.61                   | 39.32                  | 11.75                   | 39.18                  | 11.85                    | 39.08                   |
| 10900.00  | 11.66                   | 39.31                  | 11.82                   | 39.15                  | 11.90                    | 39.07                   |
| 10950.00  | 11.71                   | 39.30                  | 11.91                   | 39.10                  | 12.06                    | 38.95                   |
| 11000.00  | 11.74                   | 39.31                  | 11.97                   | 39.07                  | 12.15                    | 38.90                   |
| 11050.00  | 11.73                   | 39.36                  | 12.05                   | 39.04                  | 12.24                    | 38.85                   |
| 11100.00  | 11.73                   | 39.40                  | 12.08                   | 39.05                  | 12.26                    | 38.87                   |
| 11150.00  | 11.69                   | 39.47                  | 12.12                   | 39.05                  | 12.26                    | 38.91                   |
| 11200.00  | 11.67                   | 39.53                  | 12.10                   | 39.11                  | 12.26                    | 38.95                   |
| 11250.00  | 11.64                   | 39.60                  | 12.14                   | 39.10                  | 12.31                    | 38.93                   |
| 11300.00  | 11.63                   | 39.65                  | 12.15                   | 39.13                  | 12.30                    | 38.99                   |
| 11350.00  | 11.66                   | 39.66                  | 12.19                   | 39.13                  | 12.30                    | 39.02                   |
| 11400.00  | 11.71                   | 39.65                  | 12.25                   | 39.11                  | 12.28                    | 39.07                   |
| 11450.00  | 11.79                   | 39.61                  | 12.33                   | 39.07                  | 12.32                    | 39.07                   |
| 11500.00  | 11.86                   | 39.57                  | 12.41                   | 39.02                  | 12.47                    | 38.96                   |

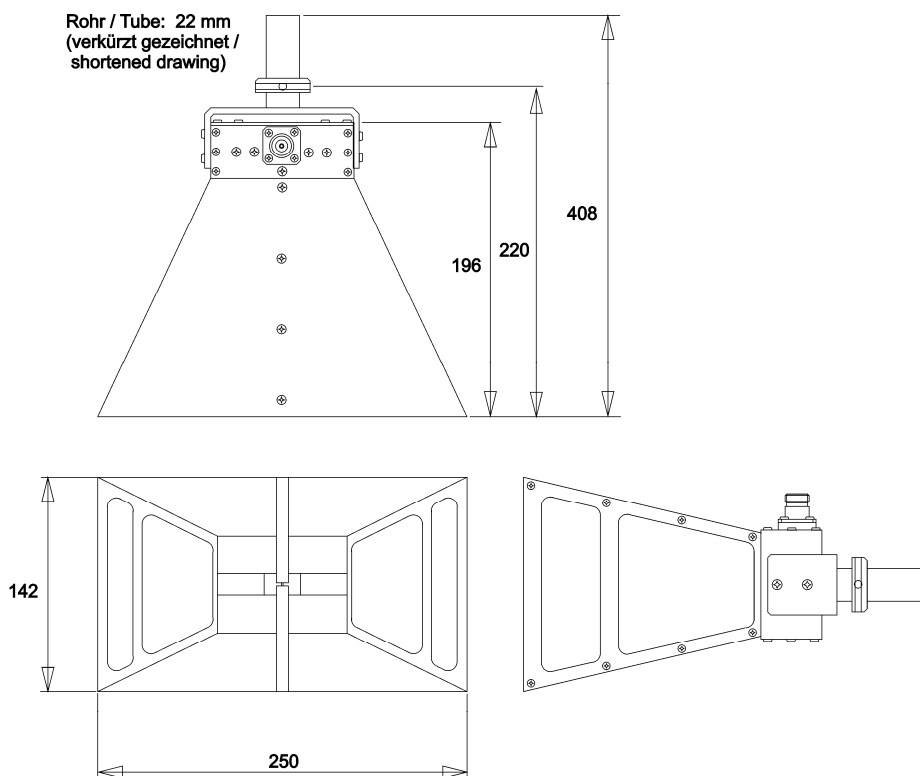
| Frequency | Gain(Isotr.)<br>1 m Ap. | Ant.-Factor<br>1 m Ap. | Gain(Isotr.)<br>3 m Ap. | Ant.-Factor<br>3 m Ap. | Gain(Isotr.)<br>farfield | Ant.-Factor<br>farfield |
|-----------|-------------------------|------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| MHz       | dBi                     | dB/m                   | dBi                     | dB/m                   | dBi                      | dB/m                    |
| 11550.00  | 11.97                   | 39.50                  | 12.55                   | 38.92                  | 12.65                    | 38.82                   |
| 11600.00  | 12.04                   | 39.47                  | 12.62                   | 38.89                  | 12.77                    | 38.74                   |
| 11650.00  | 12.12                   | 39.42                  | 12.72                   | 38.83                  | 12.85                    | 38.69                   |
| 11700.00  | 12.16                   | 39.43                  | 12.81                   | 38.77                  | 12.92                    | 38.66                   |
| 11750.00  | 12.19                   | 39.43                  | 12.87                   | 38.75                  | 12.99                    | 38.63                   |
| 11800.00  | 12.17                   | 39.49                  | 12.91                   | 38.75                  | 13.08                    | 38.58                   |
| 11850.00  | 12.16                   | 39.53                  | 12.92                   | 38.77                  | 13.09                    | 38.60                   |
| 11900.00  | 12.14                   | 39.60                  | 12.91                   | 38.82                  | 13.07                    | 38.67                   |
| 11950.00  | 12.10                   | 39.66                  | 12.86                   | 38.91                  | 13.05                    | 38.72                   |
| 12000.00  | 12.09                   | 39.72                  | 12.83                   | 38.97                  | 12.97                    | 38.84                   |
| 12050.00  | 12.07                   | 39.77                  | 12.80                   | 39.04                  | 12.96                    | 38.88                   |
| 12100.00  | 12.09                   | 39.79                  | 12.77                   | 39.10                  | 12.94                    | 38.93                   |
| 12150.00  | 12.11                   | 39.80                  | 12.79                   | 39.12                  | 12.93                    | 38.99                   |
| 12200.00  | 12.15                   | 39.80                  | 12.82                   | 39.13                  | 12.93                    | 39.01                   |
| 12250.00  | 12.20                   | 39.79                  | 12.85                   | 39.13                  | 12.97                    | 39.02                   |
| 12300.00  | 12.25                   | 39.77                  | 12.94                   | 39.08                  | 13.00                    | 39.02                   |
| 12350.00  | 12.29                   | 39.76                  | 12.99                   | 39.06                  | 13.12                    | 38.93                   |
| 12400.00  | 12.31                   | 39.78                  | 13.02                   | 39.07                  | 13.17                    | 38.92                   |
| 12450.00  | 12.32                   | 39.81                  | 13.04                   | 39.08                  | 13.20                    | 38.92                   |
| 12500.00  | 12.28                   | 39.88                  | 13.04                   | 39.12                  | 13.21                    | 38.95                   |
| 12550.00  | 12.26                   | 39.93                  | 13.00                   | 39.19                  | 13.15                    | 39.04                   |
| 12600.00  | 12.17                   | 40.06                  | 12.95                   | 39.28                  | 13.12                    | 39.11                   |
| 12650.00  | 12.14                   | 40.12                  | 12.89                   | 39.37                  | 13.08                    | 39.18                   |
| 12700.00  | 12.06                   | 40.24                  | 12.82                   | 39.48                  | 13.00                    | 39.30                   |
| 12750.00  | 12.05                   | 40.28                  | 12.76                   | 39.57                  | 12.94                    | 39.39                   |
| 12800.00  | 12.02                   | 40.34                  | 12.74                   | 39.63                  | 12.89                    | 39.47                   |
| 12850.00  | 12.05                   | 40.35                  | 12.68                   | 39.72                  | 12.83                    | 39.57                   |
| 12900.00  | 12.09                   | 40.34                  | 12.66                   | 39.77                  | 12.83                    | 39.60                   |
| 12950.00  | 12.15                   | 40.31                  | 12.66                   | 39.81                  | 12.81                    | 39.65                   |
| 13000.00  | 12.23                   | 40.26                  | 12.66                   | 39.83                  | 12.80                    | 39.70                   |
| 13050.00  | 12.28                   | 40.25                  | 12.72                   | 39.81                  | 12.83                    | 39.71                   |
| 13100.00  | 12.36                   | 40.21                  | 12.75                   | 39.82                  | 12.83                    | 39.73                   |
| 13150.00  | 12.35                   | 40.25                  | 12.72                   | 39.88                  | 12.81                    | 39.79                   |
| 13200.00  | 12.41                   | 40.22                  | 12.71                   | 39.92                  | 12.80                    | 39.83                   |
| 13250.00  | 12.37                   | 40.29                  | 12.69                   | 39.98                  | 12.80                    | 39.87                   |
| 13300.00  | 12.42                   | 40.28                  | 12.69                   | 40.01                  | 12.77                    | 39.93                   |
| 13350.00  | 12.39                   | 40.34                  | 12.65                   | 40.08                  | 12.74                    | 39.99                   |
| 13400.00  | 12.47                   | 40.29                  | 12.58                   | 40.18                  | 12.66                    | 40.10                   |
| 13450.00  | 12.49                   | 40.31                  | 12.57                   | 40.22                  | 12.66                    | 40.13                   |
| 13500.00  | 12.63                   | 40.19                  | 12.60                   | 40.22                  | 12.74                    | 40.09                   |
| 13550.00  | 12.72                   | 40.14                  | 12.67                   | 40.19                  | 12.83                    | 40.03                   |
| 13600.00  | 12.85                   | 40.04                  | 12.74                   | 40.15                  | 12.90                    | 39.99                   |
| 13650.00  | 12.98                   | 39.94                  | 12.83                   | 40.09                  | 13.01                    | 39.92                   |
| 13700.00  | 13.07                   | 39.89                  | 12.91                   | 40.04                  | 13.05                    | 39.90                   |
| 13750.00  | 13.18                   | 39.81                  | 13.02                   | 39.97                  | 13.19                    | 39.80                   |
| 13800.00  | 13.21                   | 39.81                  | 13.06                   | 39.96                  | 13.22                    | 39.79                   |
| 13850.00  | 13.27                   | 39.78                  | 13.08                   | 39.97                  | 13.21                    | 39.84                   |
| 13900.00  | 13.26                   | 39.82                  | 13.09                   | 39.99                  | 13.19                    | 39.89                   |
| 13950.00  | 13.31                   | 39.81                  | 13.08                   | 40.03                  | 13.14                    | 39.98                   |
| 14000.00  | 13.26                   | 39.89                  | 13.00                   | 40.14                  | 13.05                    | 40.09                   |
| 14050.00  | 13.34                   | 39.83                  | 12.98                   | 40.19                  | 13.06                    | 40.12                   |
| 14100.00  | 13.33                   | 39.87                  | 12.97                   | 40.23                  | 13.03                    | 40.18                   |
| 14150.00  | 13.43                   | 39.80                  | 12.99                   | 40.24                  | 12.99                    | 40.25                   |
| 14200.00  | 13.48                   | 39.79                  | 13.04                   | 40.23                  | 13.03                    | 40.24                   |

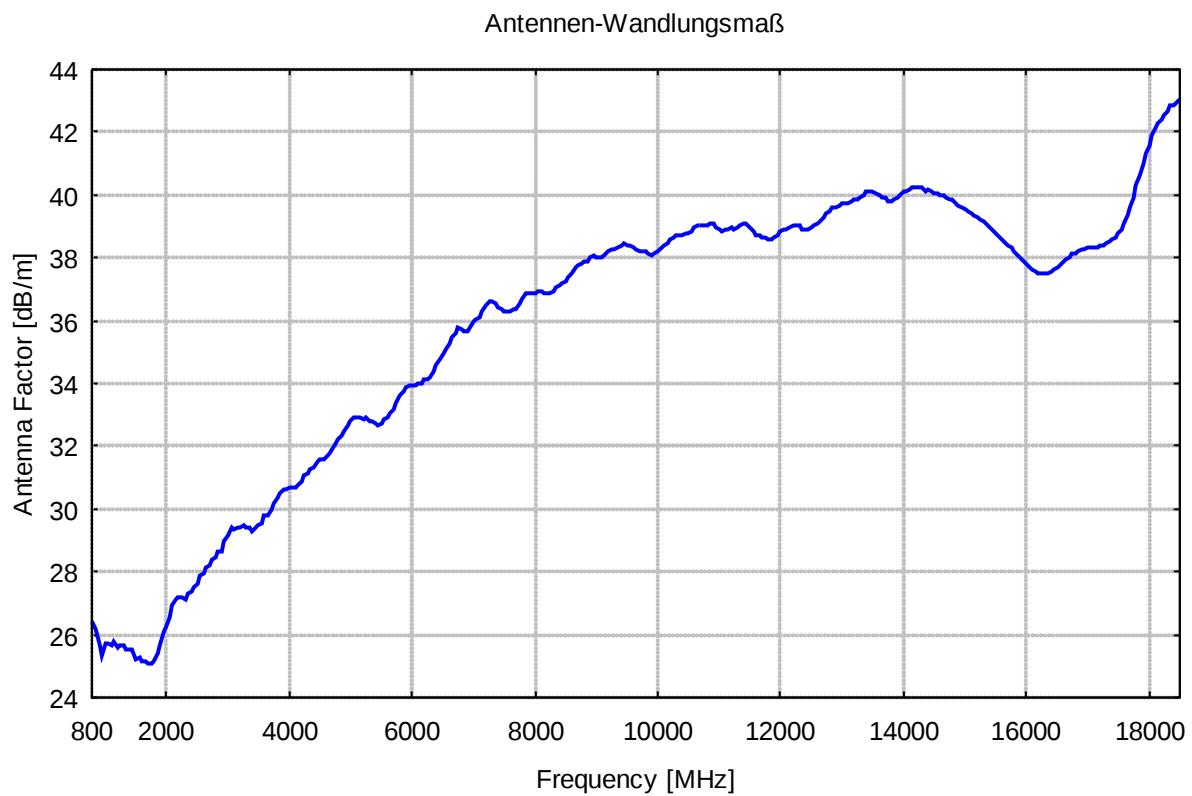
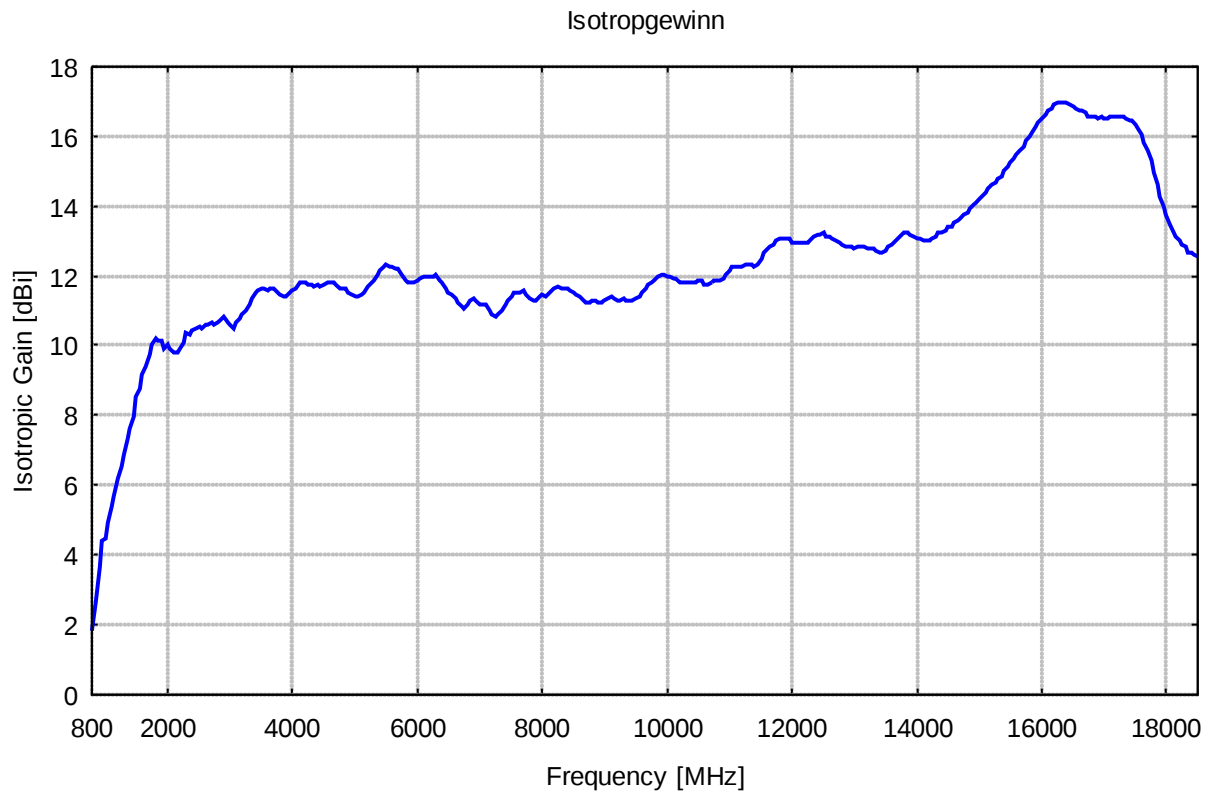
| Frequency | Gain(Isotr.)<br>1 m Ap. | Ant.-Factor<br>1 m Ap. | Gain(Isotr.)<br>3 m Ap. | Ant.-Factor<br>3 m Ap. | Gain(Isotr.)<br>farfield | Ant.-Factor<br>farfield |
|-----------|-------------------------|------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| MHz       | dBi                     | dB/m                   | dBi                     | dB/m                   | dBi                      | dB/m                    |
| 14250.00  | 13.58                   | 39.72                  | 13.06                   | 40.23                  | 13.04                    | 40.25                   |
| 14300.00  | 13.65                   | 39.68                  | 13.13                   | 40.20                  | 13.11                    | 40.21                   |
| 14350.00  | 13.76                   | 39.59                  | 13.22                   | 40.13                  | 13.22                    | 40.14                   |
| 14400.00  | 13.81                   | 39.57                  | 13.31                   | 40.08                  | 13.24                    | 40.15                   |
| 14450.00  | 13.92                   | 39.50                  | 13.37                   | 40.05                  | 13.31                    | 40.11                   |
| 14500.00  | 13.99                   | 39.45                  | 13.43                   | 40.02                  | 13.39                    | 40.06                   |
| 14550.00  | 14.08                   | 39.40                  | 13.48                   | 39.99                  | 13.42                    | 40.06                   |
| 14600.00  | 14.19                   | 39.31                  | 13.56                   | 39.94                  | 13.51                    | 40.00                   |
| 14650.00  | 14.29                   | 39.25                  | 13.63                   | 39.90                  | 13.57                    | 39.97                   |
| 14700.00  | 14.42                   | 39.14                  | 13.75                   | 39.81                  | 13.64                    | 39.92                   |
| 14750.00  | 14.53                   | 39.07                  | 13.86                   | 39.74                  | 13.76                    | 39.84                   |
| 14800.00  | 14.67                   | 38.96                  | 13.97                   | 39.66                  | 13.79                    | 39.83                   |
| 14850.00  | 14.75                   | 38.90                  | 14.11                   | 39.55                  | 13.91                    | 39.75                   |
| 14900.00  | 14.88                   | 38.81                  | 14.25                   | 39.44                  | 14.03                    | 39.65                   |
| 14950.00  | 14.93                   | 38.79                  | 14.38                   | 39.33                  | 14.11                    | 39.60                   |
| 15000.00  | 15.02                   | 38.72                  | 14.52                   | 39.22                  | 14.22                    | 39.52                   |
| 15050.00  | 15.04                   | 38.73                  | 14.60                   | 39.17                  | 14.28                    | 39.49                   |
| 15100.00  | 15.11                   | 38.69                  | 14.71                   | 39.09                  | 14.37                    | 39.43                   |
| 15150.00  | 15.12                   | 38.71                  | 14.82                   | 39.01                  | 14.50                    | 39.33                   |
| 15200.00  | 15.17                   | 38.69                  | 14.90                   | 38.95                  | 14.60                    | 39.26                   |
| 15250.00  | 15.20                   | 38.69                  | 14.98                   | 38.91                  | 14.66                    | 39.23                   |
| 15300.00  | 15.25                   | 38.66                  | 15.08                   | 38.83                  | 14.77                    | 39.15                   |
| 15350.00  | 15.29                   | 38.65                  | 15.16                   | 38.79                  | 14.86                    | 39.08                   |
| 15400.00  | 15.34                   | 38.63                  | 15.26                   | 38.71                  | 15.01                    | 38.96                   |
| 15450.00  | 15.39                   | 38.61                  | 15.35                   | 38.65                  | 15.12                    | 38.88                   |
| 15500.00  | 15.42                   | 38.61                  | 15.44                   | 38.58                  | 15.22                    | 38.80                   |
| 15550.00  | 15.47                   | 38.59                  | 15.54                   | 38.51                  | 15.34                    | 38.72                   |
| 15600.00  | 15.45                   | 38.63                  | 15.64                   | 38.44                  | 15.47                    | 38.61                   |
| 15650.00  | 15.50                   | 38.61                  | 15.73                   | 38.38                  | 15.61                    | 38.50                   |
| 15700.00  | 15.47                   | 38.67                  | 15.81                   | 38.32                  | 15.73                    | 38.41                   |
| 15750.00  | 15.52                   | 38.64                  | 15.91                   | 38.26                  | 15.85                    | 38.32                   |
| 15800.00  | 15.50                   | 38.69                  | 15.99                   | 38.20                  | 15.99                    | 38.20                   |
| 15850.00  | 15.57                   | 38.65                  | 16.09                   | 38.13                  | 16.12                    | 38.10                   |
| 15900.00  | 15.58                   | 38.67                  | 16.21                   | 38.04                  | 16.25                    | 37.99                   |
| 15950.00  | 15.66                   | 38.62                  | 16.32                   | 37.95                  | 16.40                    | 37.88                   |
| 16000.00  | 15.68                   | 38.62                  | 16.44                   | 37.86                  | 16.50                    | 37.80                   |
| 16050.00  | 15.75                   | 38.58                  | 16.55                   | 37.78                  | 16.62                    | 37.71                   |
| 16100.00  | 15.78                   | 38.58                  | 16.65                   | 37.70                  | 16.73                    | 37.62                   |
| 16150.00  | 15.81                   | 38.57                  | 16.74                   | 37.65                  | 16.81                    | 37.58                   |
| 16200.00  | 15.82                   | 38.59                  | 16.79                   | 37.62                  | 16.88                    | 37.53                   |
| 16250.00  | 15.81                   | 38.63                  | 16.83                   | 37.61                  | 16.94                    | 37.50                   |
| 16300.00  | 15.81                   | 38.66                  | 16.85                   | 37.62                  | 16.96                    | 37.50                   |
| 16350.00  | 15.76                   | 38.73                  | 16.84                   | 37.65                  | 16.99                    | 37.50                   |
| 16400.00  | 15.74                   | 38.78                  | 16.79                   | 37.72                  | 16.97                    | 37.55                   |
| 16450.00  | 15.63                   | 38.91                  | 16.73                   | 37.81                  | 16.91                    | 37.63                   |
| 16500.00  | 15.60                   | 38.97                  | 16.65                   | 37.92                  | 16.87                    | 37.69                   |
| 16550.00  | 15.50                   | 39.09                  | 16.59                   | 38.01                  | 16.82                    | 37.78                   |
| 16600.00  | 15.48                   | 39.15                  | 16.49                   | 38.13                  | 16.74                    | 37.88                   |
| 16650.00  | 15.37                   | 39.28                  | 16.43                   | 38.22                  | 16.71                    | 37.94                   |
| 16700.00  | 15.36                   | 39.31                  | 16.38                   | 38.30                  | 16.65                    | 38.02                   |
| 16750.00  | 15.27                   | 39.43                  | 16.35                   | 38.36                  | 16.58                    | 38.12                   |
| 16800.00  | 15.30                   | 39.43                  | 16.33                   | 38.39                  | 16.57                    | 38.16                   |
| 16850.00  | 15.24                   | 39.52                  | 16.33                   | 38.42                  | 16.57                    | 38.18                   |
| 16900.00  | 15.24                   | 39.54                  | 16.34                   | 38.44                  | 16.53                    | 38.25                   |

| Frequency | Gain(Isotr.)<br>1 m Ap. | Ant.-Factor<br>1 m Ap. | Gain(Isotr.)<br>3 m Ap. | Ant.-Factor<br>3 m Ap. | Gain(Isotr.)<br>farfield | Ant.-Factor<br>farfield |
|-----------|-------------------------|------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| MHz       | dBi                     | dB/m                   | dBi                     | dB/m                   | dBi                      | dB/m                    |
| 16950.00  | 15.17                   | 39.63                  | 16.34                   | 38.47                  | 16.56                    | 38.25                   |
| 17000.00  | 15.17                   | 39.66                  | 16.33                   | 38.50                  | 16.53                    | 38.30                   |
| 17050.00  | 15.11                   | 39.74                  | 16.33                   | 38.53                  | 16.53                    | 38.33                   |
| 17100.00  | 15.09                   | 39.79                  | 16.33                   | 38.55                  | 16.57                    | 38.31                   |
| 17150.00  | 15.02                   | 39.88                  | 16.32                   | 38.58                  | 16.57                    | 38.33                   |
| 17200.00  | 14.97                   | 39.96                  | 16.32                   | 38.61                  | 16.55                    | 38.38                   |
| 17250.00  | 14.89                   | 40.07                  | 16.29                   | 38.67                  | 16.57                    | 38.38                   |
| 17300.00  | 14.79                   | 40.19                  | 16.26                   | 38.72                  | 16.54                    | 38.44                   |
| 17350.00  | 14.67                   | 40.33                  | 16.23                   | 38.77                  | 16.52                    | 38.49                   |
| 17400.00  | 14.51                   | 40.53                  | 16.17                   | 38.86                  | 16.47                    | 38.56                   |
| 17450.00  | 14.33                   | 40.73                  | 16.07                   | 38.98                  | 16.42                    | 38.64                   |
| 17500.00  | 14.11                   | 40.97                  | 15.96                   | 39.12                  | 16.32                    | 38.76                   |
| 17550.00  | 13.88                   | 41.23                  | 15.79                   | 39.31                  | 16.21                    | 38.90                   |
| 17600.00  | 13.59                   | 41.54                  | 15.60                   | 39.53                  | 16.02                    | 39.11                   |
| 17650.00  | 13.33                   | 41.83                  | 15.36                   | 39.80                  | 15.81                    | 39.34                   |
| 17700.00  | 13.01                   | 42.16                  | 15.08                   | 40.10                  | 15.57                    | 39.61                   |
| 17750.00  | 12.73                   | 42.47                  | 14.74                   | 40.47                  | 15.28                    | 39.93                   |
| 17800.00  | 12.40                   | 42.83                  | 14.41                   | 40.82                  | 14.96                    | 40.27                   |
| 17850.00  | 12.10                   | 43.16                  | 14.05                   | 41.21                  | 14.63                    | 40.62                   |
| 17900.00  | 11.78                   | 43.49                  | 13.71                   | 41.57                  | 14.28                    | 41.00                   |
| 17950.00  | 11.52                   | 43.78                  | 13.36                   | 41.94                  | 13.99                    | 41.31                   |
| 18000.00  | 11.27                   | 44.05                  | 13.08                   | 42.25                  | 13.75                    | 41.57                   |

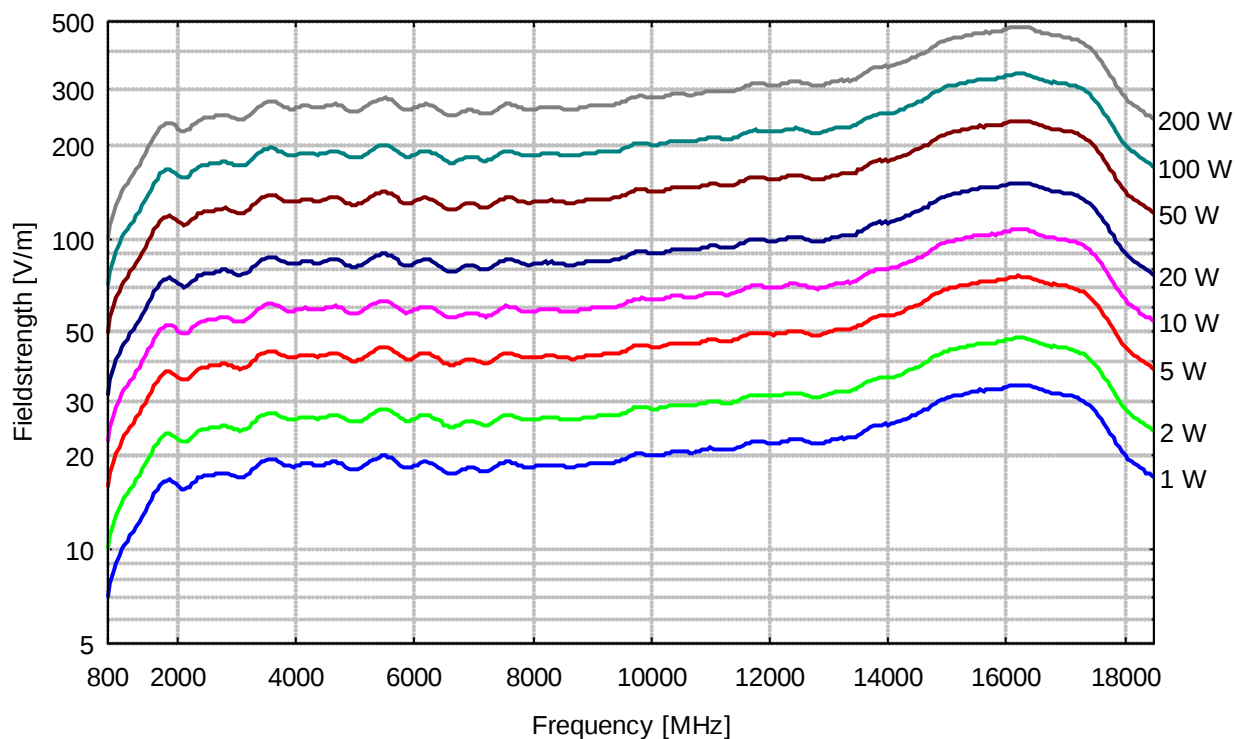
Kalibrierbezugspunkt:  
Apertur

Calibration Reference Point:  
Aperture

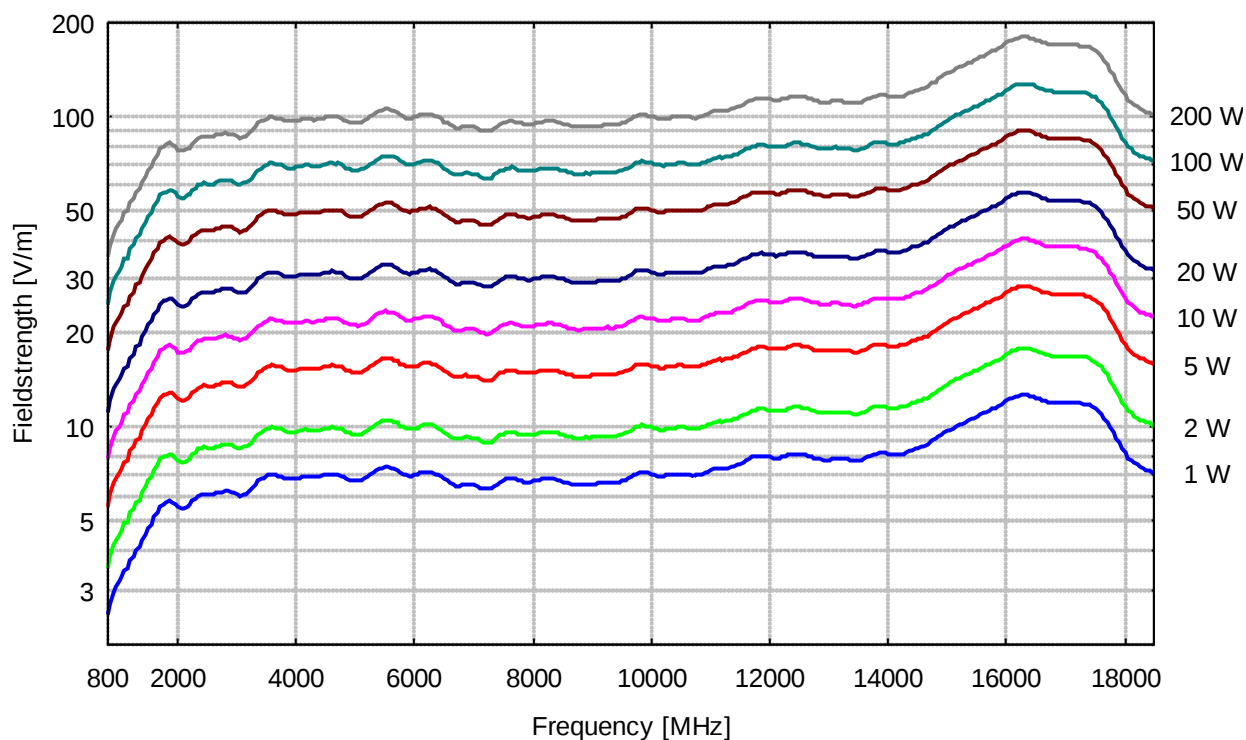




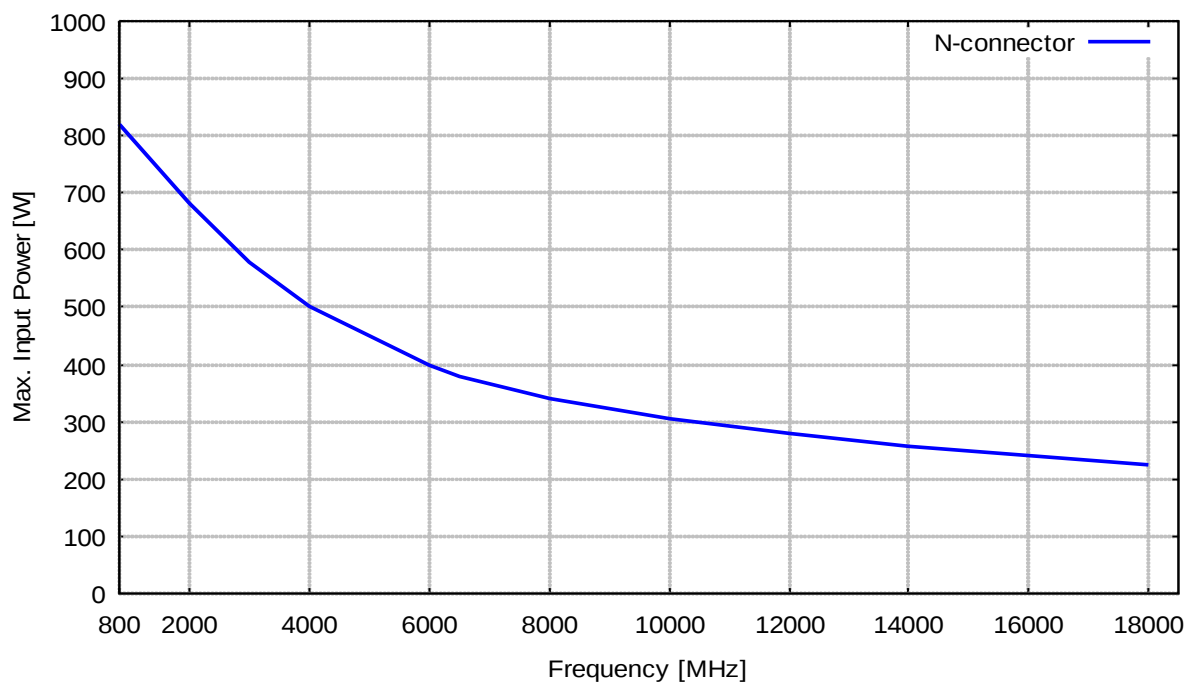
BBHA 9120 D Input Power, Dist. Aperture-EuT: 1 m



BBHA 9120 D Input Power, Dist. Aperture-EuT: 3 m



Maximale Eingangsleistung



VSWR

