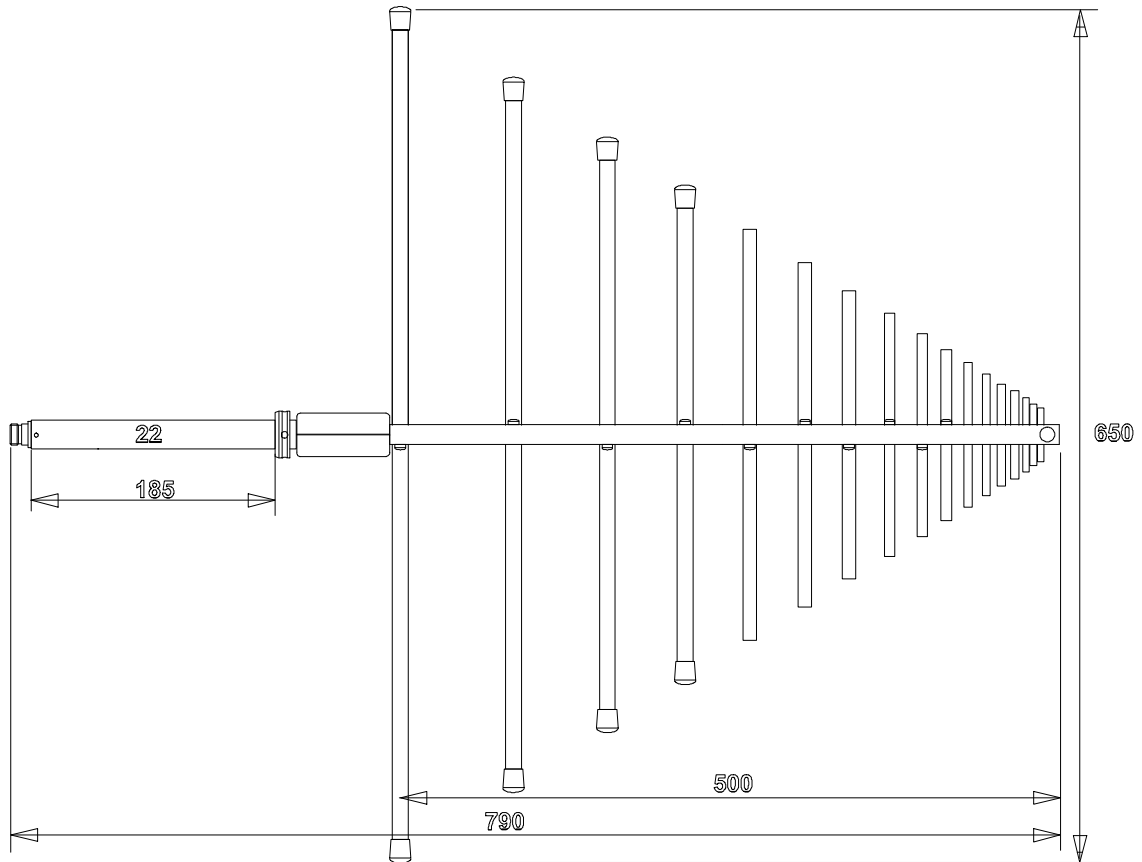


SCHWARZBECK MESS - ELEKTRONIK

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

Log. - Per. Breitband-Antenne VUSLP 9111 Log. - Per. Broadband Antenna VUSLP 9111



Technische Daten:

Bauart:
Linear polarisierte Logarithmisch
Periodische Breitbandantenne in
Aluminiumausführung für Empfangs-
und Sendeanwendungen

Frequenzbereich, nominell: 230 MHz...2.3 GHz
Nutzbarer Frequenzbereich: 200 MHz ... 4 GHz
Isotropgewinn: 7 dBi + / - 1 dB
Antennenfaktor: 12 ... 32 dB/m
Impedanz, nominell: 50 Ω
Stehwellenverhältnis SWR max.: < 2.5
Stehwellenverhältnis SWR typisch: <1.5
Vor- Rückverhältnis: 20 dB
Polarisationsentkopplung: >20 dB (230 MHz...1 GHz)
3 dB Öffnungswinkel typ.(E-Ebene): 45°-65°
3 dB Öffnungswinkel typ.(H-Ebene): 90°-120°
Max. Eingangsleistung: 1000 W (230 MHz)
300 W (1 GHz)

Anschlußart: N-Buchse
Halterung: 22 mm Rohr, Rastring
Breite x Länge x Dicke: 650 x 790 x 82 mm
Gewicht: 1.6 kg
Transportkoffer (optional) (B x L x H)

VUSLP 9111

650 x 790 x 82 mm
1.6 kg
725 x 610 x 145

Specifications:

Type:
Linear polarized Logarithmic Periodic
Broadband Antenna
(Aluminium tubing)
for Receive and Transmit Applications

Nominal Frequency Range:
Usable Frequency Range:
Isotropic Gain:
Antenna Factor:
Nominal Impedance:
Standing Wave Ratio SWR max.:
Standing Wave Ratio SWR typical:
Front to Back Ratio:
Cross Polarisation:
3 dB Beamwidth typ. (E-Plane):
3 dB Beamwidth typ. (H-Plane):
Max. Input Power:

N-Connector female
Mount: 22 mm Tube, Indexing Ring
Width x Length x Thickness:
Weight:
Storing Case (optional): (W x L x H)

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Log. - Per. Broadband Antenna VUSLP 9111

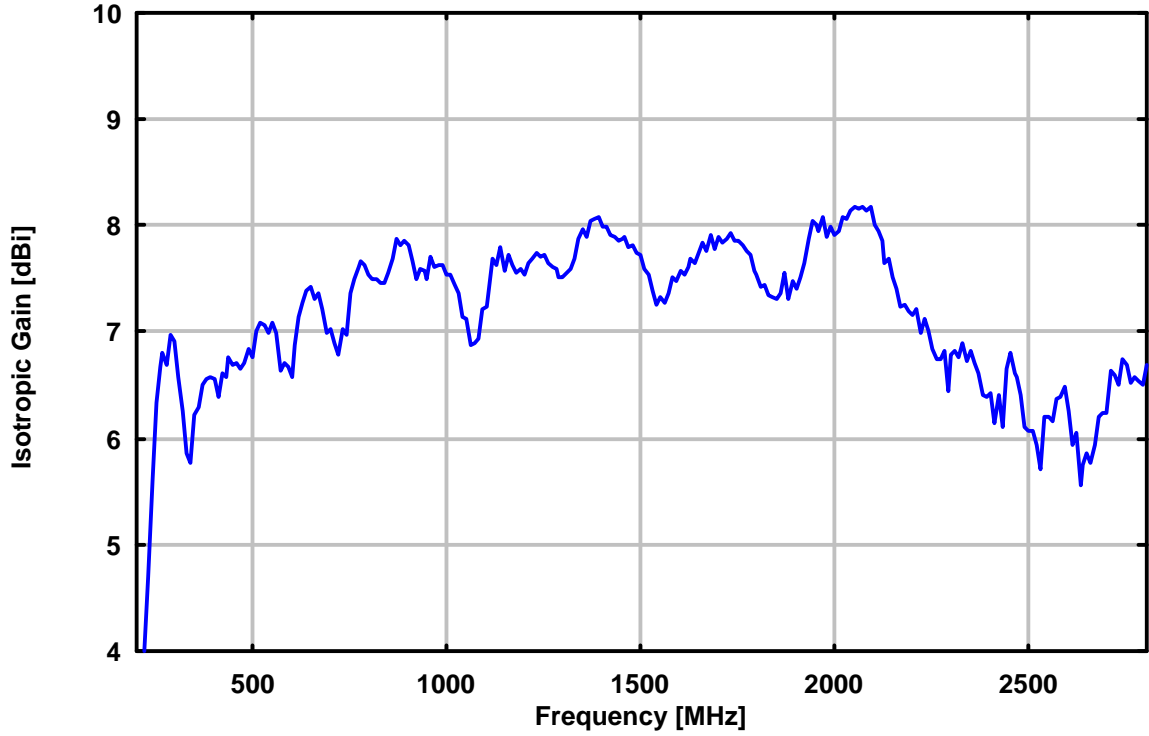
| Frequency | Distance | λ | Attenuation | Isotr. Gain | Gain ($\lambda/2$ Dipole) | Antenna Factor |
|-----------|----------|-------------|-------------|----------------|----------------------------|--------------------|
| Frequenz | Abstand | Wellenlänge | Dämpfung | Isotrop-gewinn | Gewinn (HW-Dipol) | Ant.-Wand-lungsmaß |
| MHz | m | m | dB | dBi | dBd | dB/m |
| 200 | 3.50 | 1.50 | 26.25 | 1.55 | -0.60 | 14.69 |
| 210 | 3.50 | 1.43 | 24.67 | 2.55 | 0.40 | 14.12 |
| 220 | 3.50 | 1.36 | 22.82 | 3.68 | 1.52 | 13.39 |
| 230 | 3.50 | 1.30 | 21.15 | 4.70 | 2.55 | 12.75 |
| 240 | 3.46 | 1.25 | 19.57 | 5.62 | 3.47 | 12.20 |
| 250 | 3.42 | 1.20 | 18.40 | 6.34 | 4.18 | 11.84 |
| 260 | 3.38 | 1.15 | 17.97 | 6.67 | 4.52 | 11.85 |
| 270 | 3.35 | 1.11 | 17.95 | 6.80 | 4.65 | 12.04 |
| 280 | 3.31 | 1.07 | 18.40 | 6.69 | 4.54 | 12.47 |
| 290 | 3.28 | 1.03 | 18.07 | 6.97 | 4.82 | 12.49 |
| 300 | 3.26 | 1 | 18.40 | 6.92 | 4.77 | 12.84 |
| 320 | 3.21 | 0.94 | 20.17 | 6.25 | 4.10 | 14.08 |
| 340 | 3.16 | 0.88 | 21.52 | 5.77 | 3.62 | 15.07 |
| 360 | 3.12 | 0.83 | 20.87 | 6.29 | 4.14 | 15.05 |
| 380 | 3.09 | 0.79 | 20.72 | 6.55 | 4.40 | 15.26 |
| 400 | 3.06 | 0.75 | 21.07 | 6.56 | 4.41 | 15.70 |
| 420 | 3.03 | 0.71 | 21.30 | 6.61 | 4.46 | 16.07 |
| 440 | 3 | 0.68 | 21.32 | 6.77 | 4.62 | 16.32 |
| 460 | 2.98 | 0.65 | 21.75 | 6.71 | 4.56 | 16.76 |
| 480 | 2.96 | 0.63 | 22.05 | 6.71 | 4.56 | 17.13 |
| 500 | 2.94 | 0.60 | 22.25 | 6.76 | 4.61 | 17.44 |
| 550 | 2.89 | 0.55 | 22.30 | 7.09 | 4.93 | 17.94 |
| 600 | 2.86 | 0.50 | 23.95 | 6.58 | 4.43 | 19.20 |
| 650 | 2.82 | 0.46 | 22.85 | 7.43 | 5.28 | 19.04 |
| 700 | 2.80 | 0.43 | 24.22 | 7.03 | 4.88 | 20.09 |
| 750 | 2.77 | 0.40 | 24.07 | 7.37 | 5.22 | 20.35 |
| 800 | 2.75 | 0.38 | 24.25 | 7.53 | 5.38 | 20.75 |
| 850 | 2.74 | 0.35 | 24.65 | 7.56 | 5.41 | 21.25 |
| 900 | 2.72 | 0.33 | 24.60 | 7.81 | 5.66 | 21.49 |
| 950 | 2.71 | 0.32 | 25.65 | 7.50 | 5.35 | 22.28 |
| 1000 | 2.69 | 0.30 | 26 | 7.53 | 5.38 | 22.69 |
| 1100 | 2.67 | 0.27 | 27.35 | 7.23 | 5.08 | 23.82 |
| 1200 | 2.65 | 0.25 | 27.42 | 7.54 | 5.39 | 24.26 |
| 1300 | 2.64 | 0.23 | 28.12 | 7.51 | 5.36 | 24.98 |
| 1400 | 2.63 | 0.21 | 27.77 | 7.99 | 5.84 | 25.15 |
| 1500 | 2.61 | 0.20 | 28.87 | 7.72 | 5.57 | 26.02 |
| 1600 | 2.60 | 0.19 | 29.67 | 7.58 | 5.43 | 26.72 |
| 1700 | 2.60 | 0.18 | 29.55 | 7.89 | 5.74 | 26.94 |
| 1800 | 2.59 | 0.17 | 30.72 | 7.54 | 5.39 | 27.78 |
| 1900 | 2.58 | 0.16 | 31.45 | 7.40 | 5.25 | 28.39 |
| 2000 | 2.57 | 0.15 | 30.85 | 7.91 | 5.76 | 28.33 |
| 2100 | 2.57 | 0.14 | 31.07 | 8.01 | 5.85 | 28.66 |
| 2200 | 2.56 | 0.14 | 33.15 | 7.16 | 5.01 | 29.91 |
| 2300 | 2.56 | 0.13 | 34.25 | 6.79 | 4.64 | 30.66 |
| 2400 | 2.55 | 0.13 | 35.35 | 6.42 | 4.27 | 31.40 |
| 2500 | 2.55 | 0.12 | 36.40 | 6.07 | 3.92 | 32.11 |
| 2600 | 2.55 | 0.12 | 36.35 | 6.26 | 4.10 | 32.26 |
| 2700 | 2.54 | 0.11 | 36.72 | 6.23 | 4.08 | 32.62 |
| 2800 | 2.54 | 0.11 | 36.10 | 6.69 | 4.54 | 32.47 |
| MHz | m | m | dB | dBi | dBd | dB/m |

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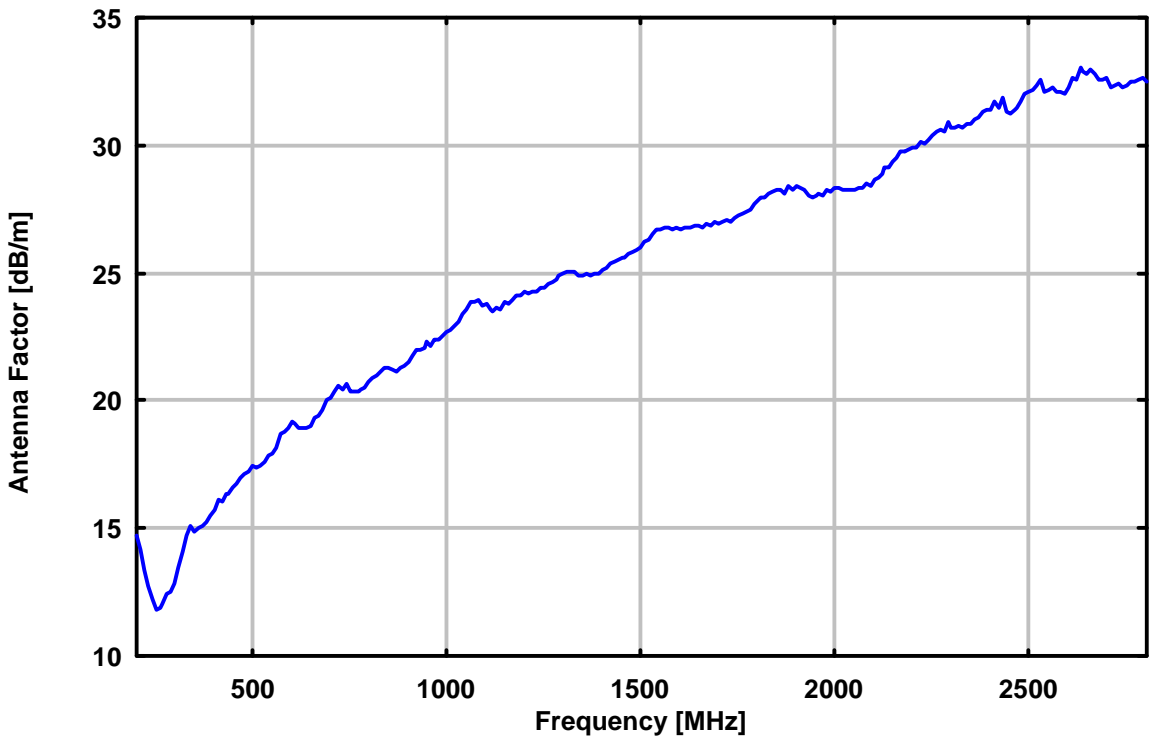
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Log. - Per. Broadband Antenna VUSLP 9111

Gewinn bezogen auf Isotropstrahler:
VUSLP 9111



Antennenfaktor (k-Faktor):
VUSLP 9111

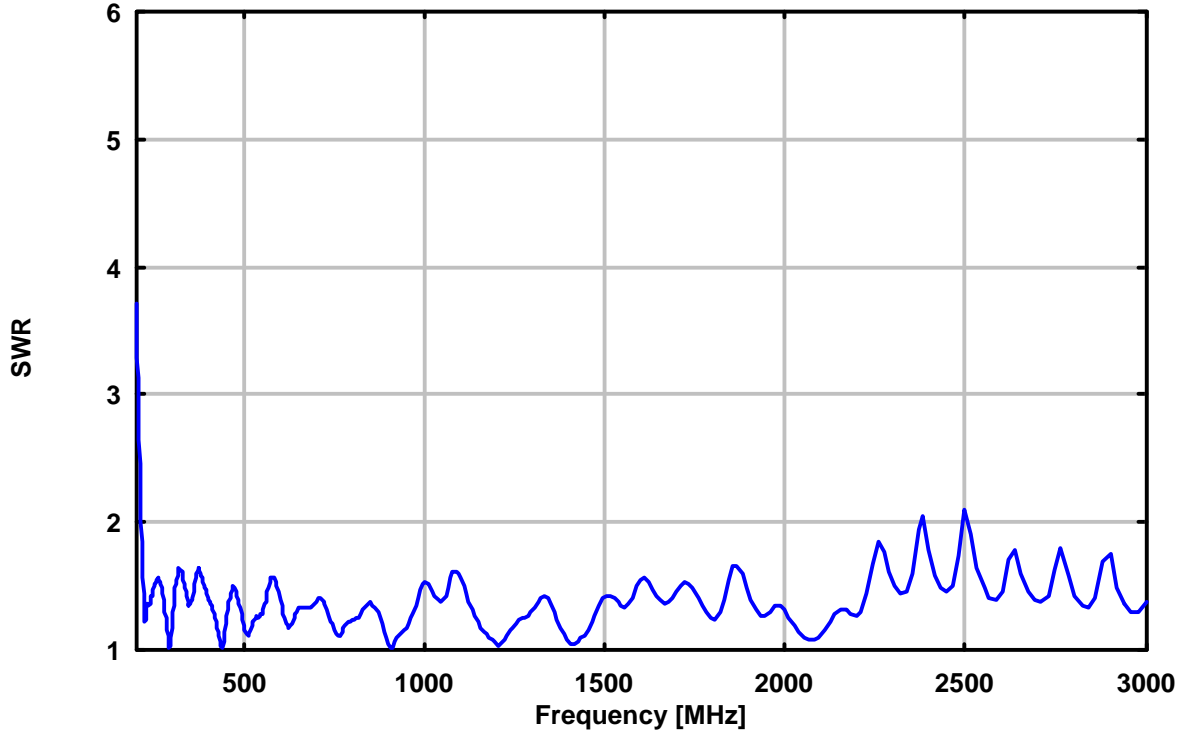


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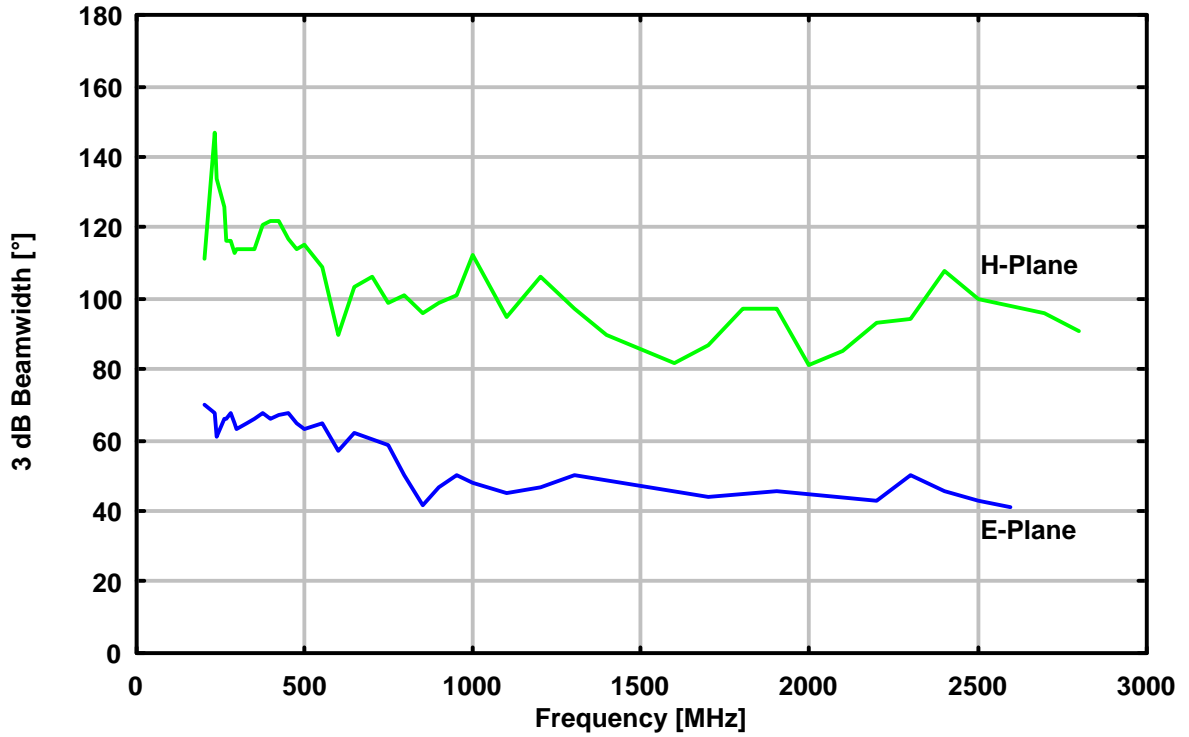
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Log. - Per. Breitband-Antenne VUSLP 9111
Log. - Per. Broadband Antenna VUSLP 9111

Stehwellenverhältnis (SWR):
VUSLP 9111



3 dB Öffnungswinkel:
VUSLP 9111

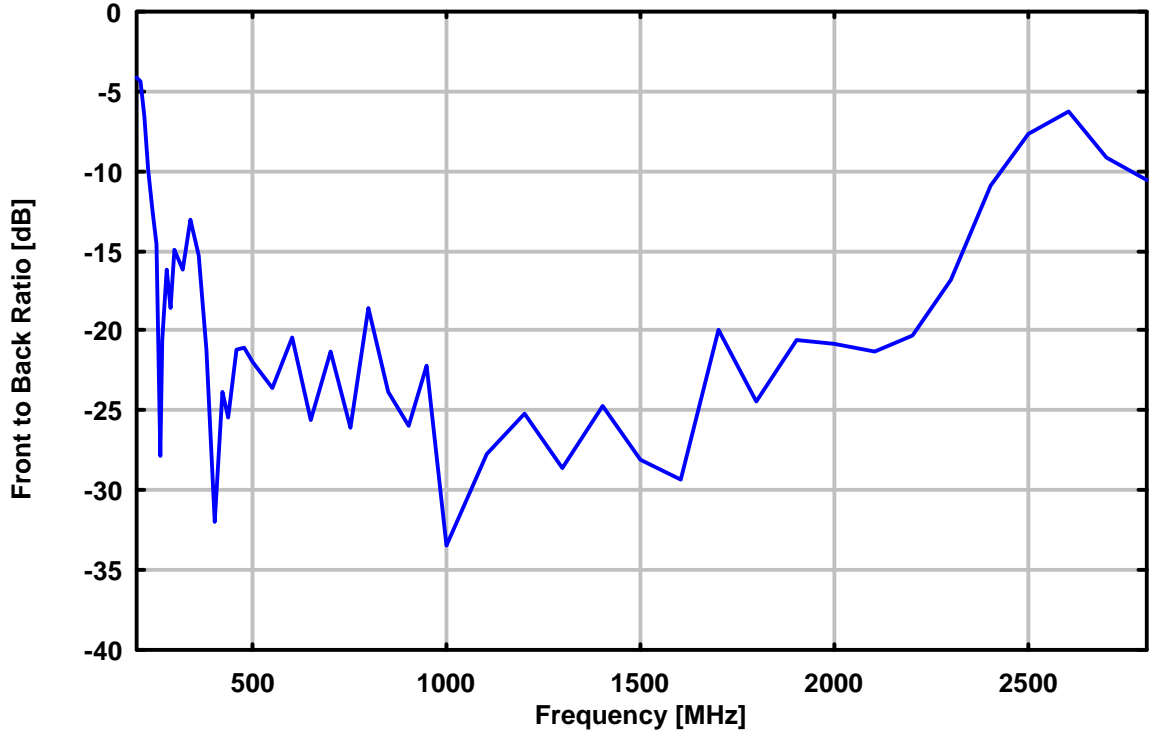


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Log. - Per. Breitband-Antenne VUSLP 9111
Log. - Per. Broadband Antenna VUSLP 9111

Vor- Rückverhältnis:
VUSLP 9111



Kreuzpolarisation, Polarisationsentkopplung:

VUSLP 9111

