Mikrowellen-Bikonusantenne
Microwave Biconical Antenna

Technische Daten:		***Specifications:***
Frequenzbereich:	1 - 10 GHz	*Frequency Range:*
Nutzbarer Frequenzbereich:	1 – 14 GHz	*Useable Frequency Range:*
Nominelle Impedanz:	50 Ω	*Nominal Impedance:*
Gewinn:	typ. -1 dBi +/- 1.5 dB	*Gain:*
Antennenwandlungsmaß:	typ. 40-52 dB/m	*Antenna Factor:*
Abweichung von Rundstrahlcharakteristik:	typ. < +/- 1.5 dB	*Deviation from Omnidirectional Pattern:*
Halbwertsbreite E-Ebene:	typ. 75° +/- 15°	*Half-Power Beamwidth E-plane:*
Dauerleistung:	50 W	*Continuous Power:*
VSWR:	typ. < 2.5:1	*VSWR:*
Abmessungen:	30 x 30 x 476 mm	*Dimensions:*
Befestigung:	D = 22 mm	*Mounting*
Gewicht:	0.54 kg	*Weight:*
Anschluss:	N female	*Connector:*

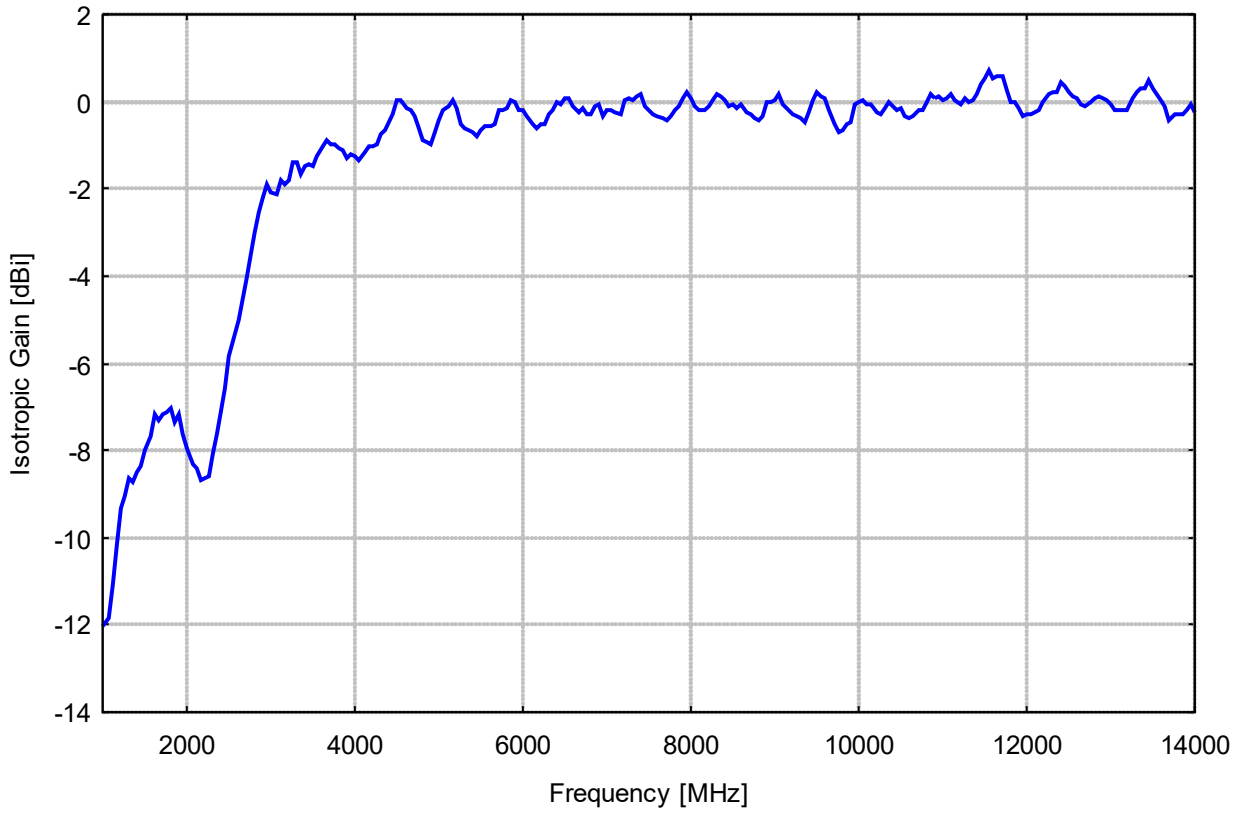
Beschreibung:

Die SBB 0110 ist ein bikonischer Breitbanddipol für den Dezimeter- und Zentimeterwellenbereich, der in der H-Ebene Rundstrahlcharakteristik aufweist. In der E-Ebene ist das Richtdiagramm „8-förmig“. Typische Anwendungen sind z.B. die Beurteilung von Messplätzen nach der SVWSR-Methode gem. CISPR 16-1-4, die Zeitbereichsmethode nach ANSI C63.25 oder auch die CMFTD-Methode (Cylindrical Mode Filtering Time Domain).

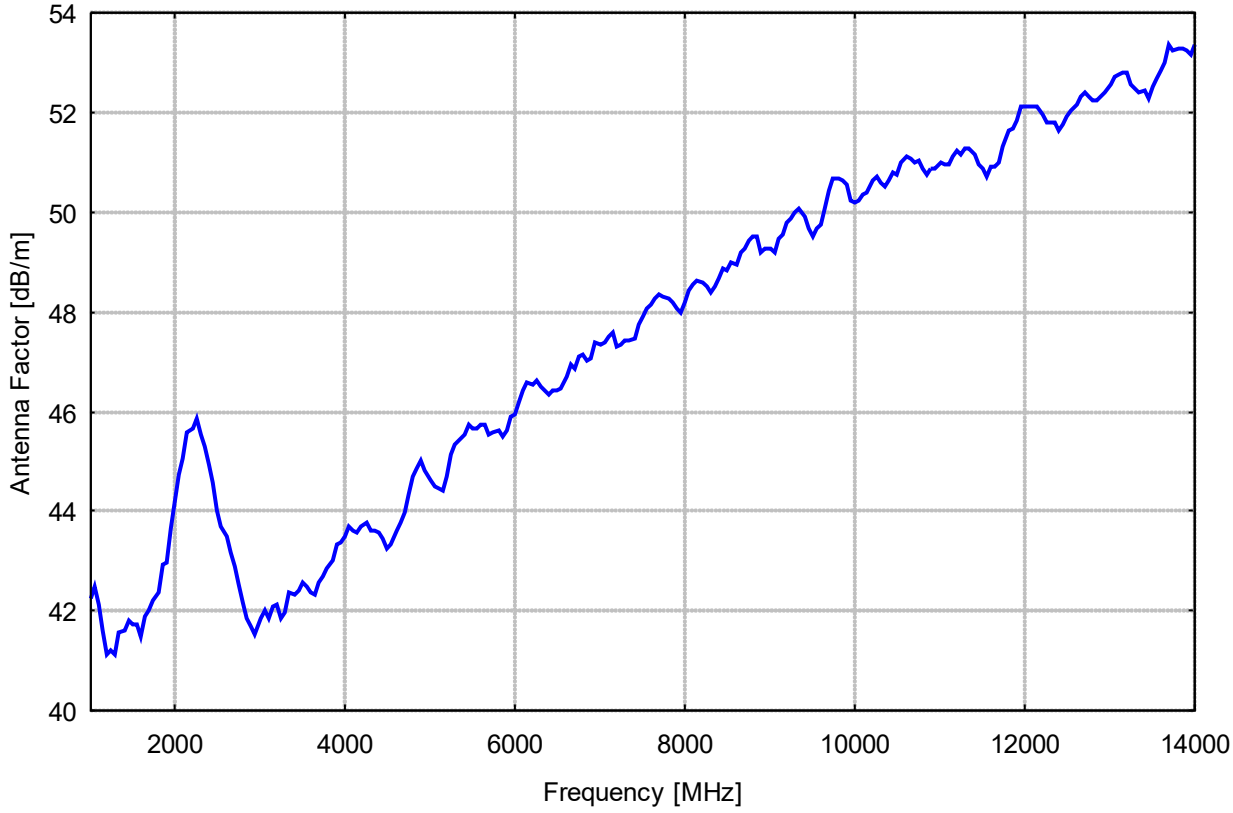
Description:

The SBB 0110 is a biconical broadband dipole antenna operating in the decimeter- and centimeter wave frequency range with omnidirectional pattern in the H-plane. The E-plane pattern is 8-shaped. Typical applications are the evaluation of test site performance e.g. according to the SVSWR method as decribed in CISPR 16-1-4 or the time domain method acc. to ANSI C 63.25 or the CMFTD-Method (cylindrical mode filtering time domain).

Isotropgewinn
Isotropic Gain



Antennen-Wandlungsmaß
Antenna Factor



Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
1000.00	-12.03	42.25
1050.00	-11.85	42.49
1100.00	-11.07	42.12
1150.00	-10.18	41.61
1200.00	-9.34	41.14
1250.00	-9.03	41.19
1300.00	-8.61	41.11
1350.00	-8.73	41.55
1400.00	-8.48	41.62
1450.00	-8.34	41.79
1500.00	-7.99	41.73
1550.00	-7.68	41.71
1600.00	-7.17	41.47
1650.00	-7.31	41.88
1700.00	-7.16	41.99
1750.00	-7.13	42.21
1800.00	-7.04	42.37
1850.00	-7.35	42.92
1900.00	-7.18	42.97
1950.00	-7.63	43.65
2000.00	-7.95	44.19
2050.00	-8.29	44.74
2100.00	-8.39	45.05
2150.00	-8.70	45.57
2200.00	-8.61	45.68
2250.00	-8.59	45.85
2300.00	-8.07	45.53
2350.00	-7.64	45.28
2400.00	-7.10	44.93
2450.00	-6.58	44.58
2500.00	-5.83	44.00
2550.00	-5.33	43.68
2600.00	-4.99	43.51
2650.00	-4.50	43.18
2700.00	-4.03	42.88
2750.00	-3.50	42.51
2800.00	-2.99	42.15
2850.00	-2.51	41.83
2900.00	-2.20	41.67
2950.00	-1.90	41.52
3000.00	-2.08	41.85
3050.00	-2.11	42.02
3100.00	-1.79	41.84
3150.00	-1.90	42.09
3200.00	-1.80	42.12
3250.00	-1.39	41.85
3300.00	-1.37	41.96
3350.00	-1.64	42.36
3400.00	-1.48	42.33
3450.00	-1.42	42.39
3500.00	-1.46	42.57
3550.00	-1.25	42.47
3600.00	-1.01	42.35
3650.00	-0.86	42.33
3700.00	-0.97	42.56

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
3750.00	-0.99	42.70
3800.00	-1.05	42.86
3850.00	-1.10	43.03
3900.00	-1.29	43.33
3950.00	-1.21	43.37
4000.00	-1.24	43.50
4050.00	-1.32	43.69
4100.00	-1.14	43.62
4150.00	-1.01	43.59
4200.00	-1.00	43.69
4250.00	-0.97	43.76
4300.00	-0.73	43.62
4350.00	-0.63	43.62
4400.00	-0.48	43.57
4450.00	-0.28	43.47
4500.00	0.03	43.26
4550.00	0.06	43.32
4600.00	-0.14	43.62
4650.00	-0.19	43.76
4700.00	-0.33	43.99
4750.00	-0.58	44.33
4800.00	-0.86	44.71
4850.00	-0.90	44.84
4900.00	-0.97	45.00
4950.00	-0.71	44.82
5000.00	-0.41	44.61
5050.00	-0.20	44.48
5100.00	-0.10	44.47
5150.00	0.04	44.41
5200.00	-0.16	44.70
5250.00	-0.51	45.13
5300.00	-0.61	45.32
5350.00	-0.63	45.42
5400.00	-0.67	45.54
5450.00	-0.78	45.73
5500.00	-0.64	45.67
5550.00	-0.56	45.66
5600.00	-0.56	45.74
5650.00	-0.50	45.76
5700.00	-0.20	45.54
5750.00	-0.18	45.59
5800.00	-0.13	45.62
5850.00	0.05	45.52
5900.00	0.01	45.62
5950.00	-0.21	45.92
6000.00	-0.17	45.95
6050.00	-0.33	46.19
6100.00	-0.49	46.41
6150.00	-0.58	46.57
6200.00	-0.49	46.56
6250.00	-0.50	46.64
6300.00	-0.29	46.50
6350.00	-0.17	46.44
6400.00	0.00	46.34
6450.00	-0.03	46.44

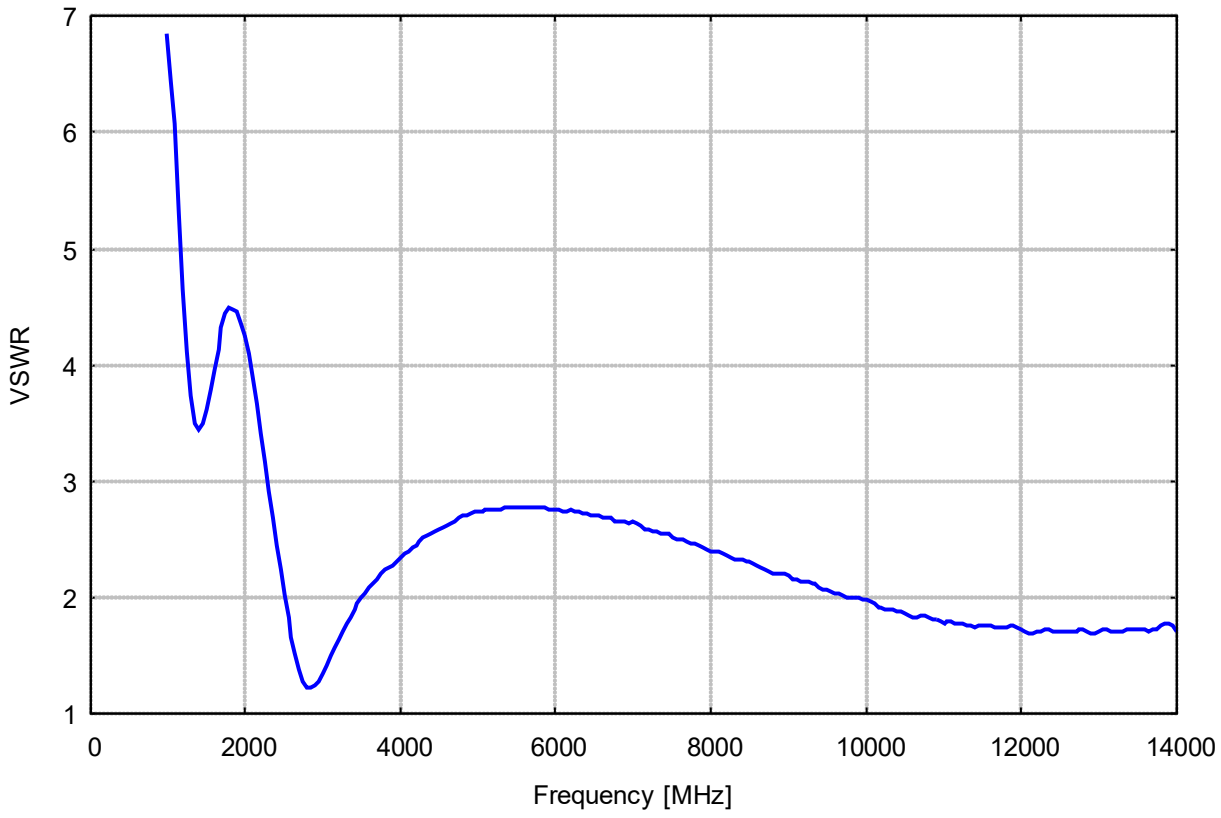
Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
6500.00	0.07	46.41
6550.00	0.08	46.47
6600.00	-0.11	46.72
6650.00	-0.25	46.93
6700.00	-0.13	46.87
6750.00	-0.28	47.09
6800.00	-0.28	47.15
6850.00	-0.10	47.04
6900.00	-0.06	47.06
6950.00	-0.31	47.37
7000.00	-0.21	47.33
7050.00	-0.19	47.38
7100.00	-0.25	47.49
7150.00	-0.28	47.58
7200.00	0.06	47.30
7250.00	0.08	47.35
7300.00	0.05	47.43
7350.00	0.12	47.43
7400.00	0.16	47.45
7450.00	-0.09	47.76
7500.00	-0.18	47.90
7550.00	-0.29	48.07
7600.00	-0.34	48.17
7650.00	-0.37	48.27
7700.00	-0.41	48.36
7750.00	-0.32	48.33
7800.00	-0.20	48.26
7850.00	-0.09	48.21
7900.00	0.10	48.07
7950.00	0.24	47.99
8000.00	0.09	48.20
8050.00	-0.10	48.43
8100.00	-0.17	48.56
8150.00	-0.21	48.65
8200.00	-0.09	48.59
8250.00	0.02	48.52
8300.00	0.20	48.40
8350.00	0.15	48.50
8400.00	0.04	48.67
8450.00	-0.10	48.86
8500.00	-0.03	48.83
8550.00	-0.15	49.01
8600.00	-0.05	48.96
8650.00	-0.25	49.21
8700.00	-0.26	49.27
8750.00	-0.39	49.45
8800.00	-0.40	49.51
8850.00	-0.34	49.50
8900.00	0.01	49.19
8950.00	-0.00	49.26
9000.00	0.02	49.28
9050.00	0.16	49.19
9100.00	-0.06	49.46
9150.00	-0.13	49.57
9200.00	-0.30	49.79

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
9250.00	-0.33	49.88
9300.00	-0.39	49.98
9350.00	-0.45	50.08
9400.00	-0.23	49.91
9450.00	0.06	49.67
9500.00	0.24	49.53
9550.00	0.15	49.67
9600.00	0.11	49.76
9650.00	-0.17	50.08
9700.00	-0.49	50.45
9750.00	-0.69	50.69
9800.00	-0.63	50.67
9850.00	-0.53	50.62
9900.00	-0.44	50.58
9950.00	-0.05	50.23
10000.00	0.01	50.21
10050.00	0.02	50.25
10100.00	-0.05	50.36
10150.00	-0.05	50.40
10200.00	-0.22	50.62
10250.00	-0.27	50.71
10300.00	-0.14	50.61
10350.00	-0.01	50.53
10400.00	-0.09	50.65
10450.00	-0.19	50.79
10500.00	-0.13	50.77
10550.00	-0.33	51.01
10600.00	-0.38	51.11
10650.00	-0.31	51.08
10700.00	-0.21	51.02
10750.00	-0.20	51.04
10800.00	0.00	50.89
10850.00	0.16	50.77
10900.00	0.10	50.87
10950.00	0.12	50.89
11000.00	0.03	51.02
11050.00	0.11	50.97
11100.00	0.18	50.95
11150.00	0.03	51.14
11200.00	-0.03	51.24
11250.00	0.09	51.15
11300.00	0.00	51.28
11350.00	0.03	51.29
11400.00	0.18	51.18
11450.00	0.42	50.98
11500.00	0.56	50.87
11550.00	0.73	50.74
11600.00	0.56	50.94
11650.00	0.61	50.94
11700.00	0.58	51.00
11750.00	0.29	51.33
11800.00	0.00	51.66
11850.00	-0.01	51.70
11900.00	-0.12	51.85
11950.00	-0.34	52.11

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
12000.00	-0.30	52.11
12050.00	-0.30	52.14
12100.00	-0.23	52.11
12150.00	-0.20	52.11
12200.00	-0.01	51.96
12250.00	0.16	51.82
12300.00	0.21	51.80
12350.00	0.24	51.81
12400.00	0.45	51.64
12450.00	0.36	51.76
12500.00	0.22	51.93
12550.00	0.15	52.04
12600.00	0.08	52.15
12650.00	-0.07	52.34
12700.00	-0.10	52.39
12750.00	-0.00	52.33
12800.00	0.11	52.26
12850.00	0.13	52.26
12900.00	0.11	52.32
12950.00	0.06	52.40
13000.00	-0.06	52.56
13050.00	-0.19	52.72

Frequency	Gain(Isotr.)	Ant.-Factor
MHz	dBi	dB/m
13100.00	-0.21	52.78
13150.00	-0.21	52.81
13200.00	-0.18	52.81
13250.00	0.08	52.58
13300.00	0.23	52.47
13350.00	0.32	52.41
13400.00	0.31	52.45
13450.00	0.52	52.27
13500.00	0.31	52.52
13550.00	0.18	52.68
13600.00	0.04	52.85
13650.00	-0.08	53.00
13700.00	-0.40	53.36
13750.00	-0.26	53.25
13800.00	-0.28	53.30
13850.00	-0.26	53.31
13900.00	-0.19	53.27
13950.00	-0.05	53.16
14000.00	-0.24	53.38

Spannungs-Stehwellenverhältnis
Voltage Standing Wave Ratio



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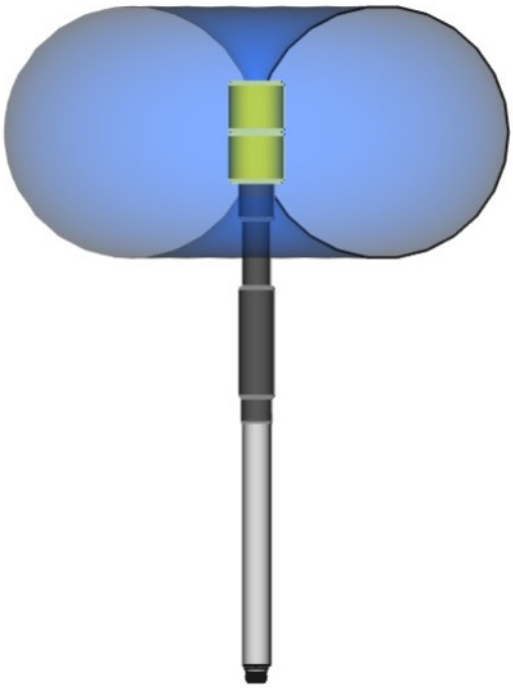
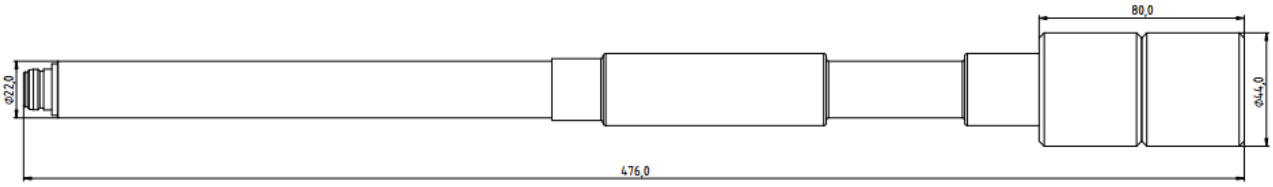
Räumliches Richtdiagramm
Spatial Directional Pattern



Abmessungen
Dimensions



SCHWARZBECK MESS – ELEKTRONIK OHG
Ziegelhäuser Straße 25
69250 Schönau, Germany
Phone: +49 6228 1001
Fax.: +49 6228 1003
E-Mail: office@schwarzbeck.de
www.schwarzbeck.de