

# SCHWARZBECK MESS - ELEKTRONIK

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

## RS 0460 Bikonus-Rundstrahlantenne 0.4 - 6 GHz RS 0460 Biconical Omnidirectional Antenna 0.4 - 6 GHz



### Technische Daten:

Vertikal polarisierte Mikrowellen-  
Bikonus-Breitbandantenne mit  
Rundstrahlcharakteristik in der  
H-Ebene

Frequenzbereich:	0.4 - 6 GHz
Nutzbarer Frequenzbereich:	0.4 - 8 GHz
Anschluß: Buchse	50 $\Omega$ N
Befestigungsrohr:	22 mm
Isotropgewinn:	typ. -3...+3 dBi
Antennenwandlungsmaß:	25 ... 44 dB/m
SWR typ.:	1.5
SWR max.:	3 (f>500 MHz)
Max. Eingangsleistung:	100 W
Halbwertsbreite E-Ebene:	80° - 50°
Abweichung des Richtdiagramms von Rundstrahlung:	typ. < +/- 1 dB
Gewicht:	2.6 kg
Abmessungen:	185 x 185 x 370 mm

### Specifications:

Vertical polarised microwave  
biconical broadband antenna with  
omnidirectional H-plane pattern.

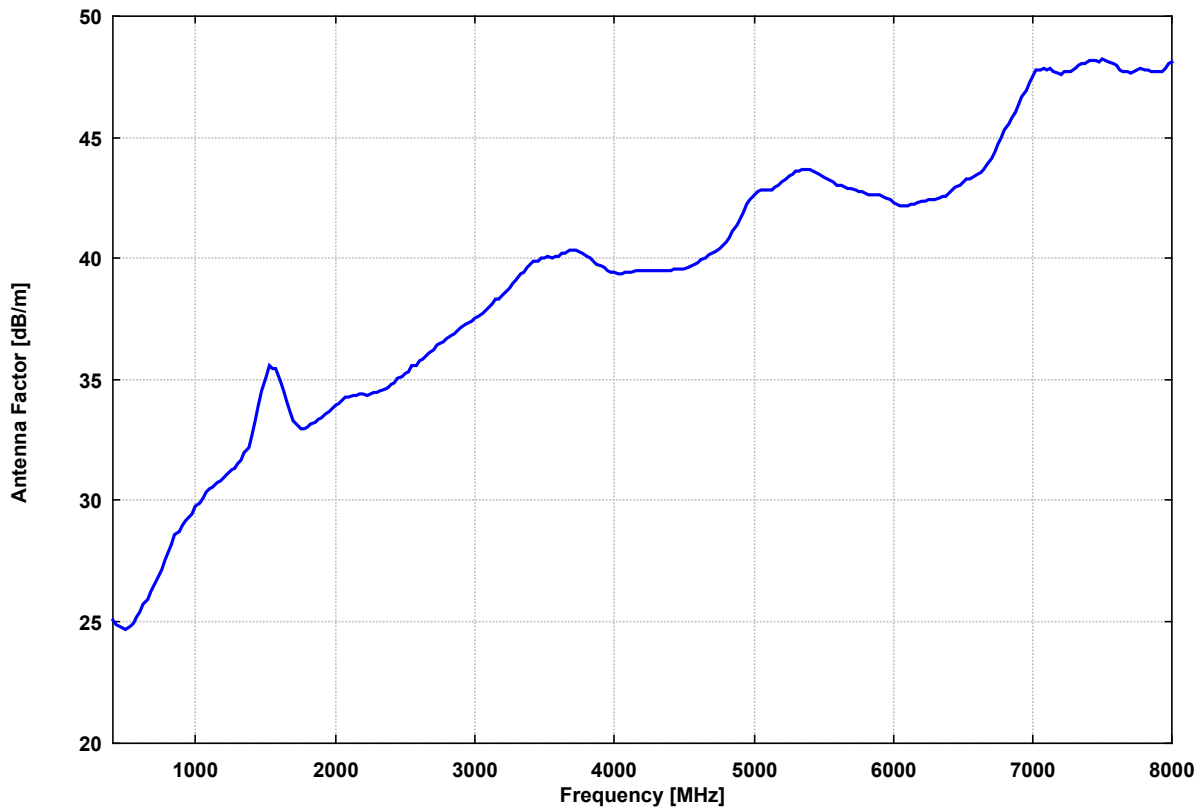
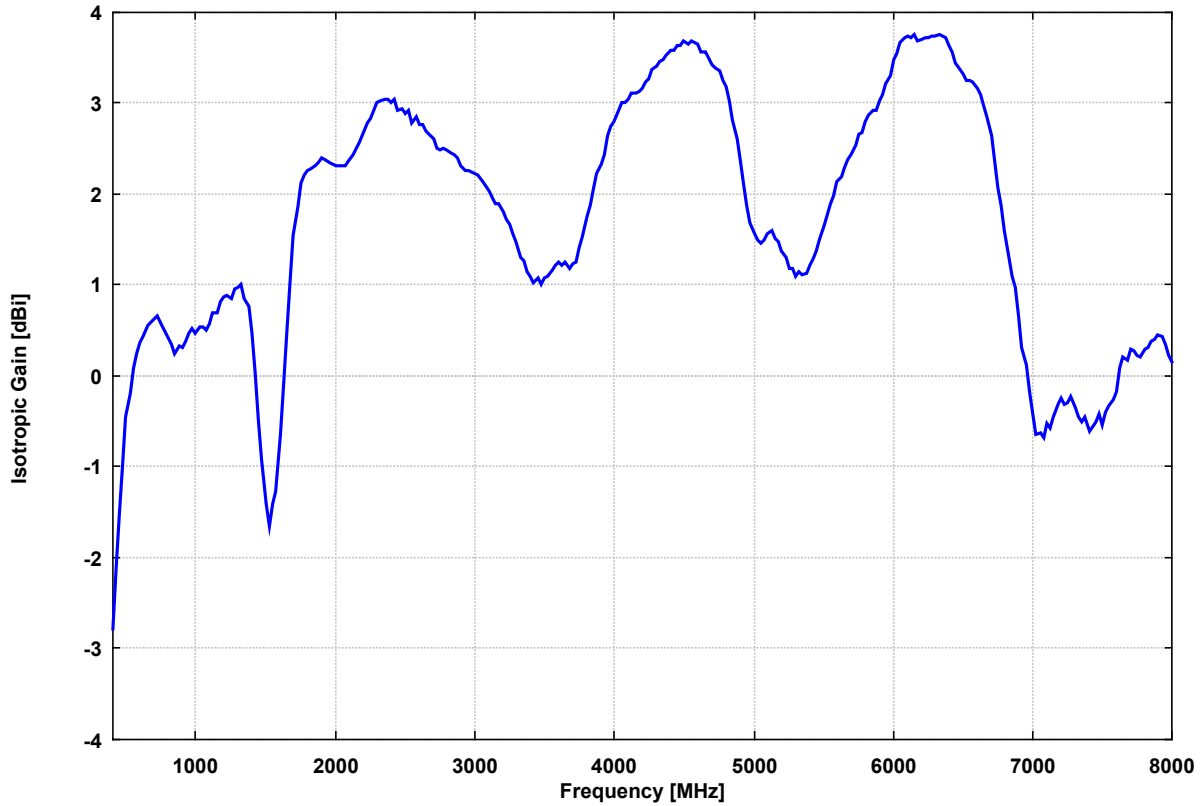
Frequency range:	0.4 - 6 GHz
Useable Frequency Range:	0.4 - 8 GHz
Connector: female	50 $\Omega$ N
Mounting tube:	22 mm
Isotropic gain:	typ. -3...+3 dBi
Antenna Factor:	25 ... 44 dB/m
SWR typ.:	1.5
SWR max.:	3 (f>500 MHz)
Max. Input Power:	100 W
Half-Power Beamwidth (E-plane):	80° - 50°
Pattern Deviation from Omnidirectional:	typ. < +/- 1 dB

Weight:  
Dimensions:

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Frequency MHz	Isotropic Gain dBi	Antenna Factor dB/m
350.0	-4.61	25.71
375.0	-3.78	25.49
400.0	-2.78	25.04
425.0	-2.13	24.91
450.0	-1.54	24.82
475.0	-1.00	24.76
500.0	-0.46	24.66
525.0	-0.20	24.82
550.0	+0.08	24.95
575.0	+0.25	25.17
600.0	+0.37	25.42
625.0	+0.44	25.69
650.0	+0.56	25.92
675.0	+0.59	26.22
700.0	+0.63	26.50
725.0	+0.67	26.76
750.0	+0.56	27.16
775.0	+0.49	27.52
800.0	+0.41	27.88
825.0	+0.34	28.21
850.0	+0.24	28.57
875.0	+0.33	28.73
900.0	+0.31	28.99
925.0	+0.38	29.16
950.0	+0.47	29.31
975.0	+0.52	29.48
1000.0	+0.47	29.76
1025.0	+0.54	29.89
1050.0	+0.53	30.11
1075.0	+0.51	30.33
1100.0	+0.58	30.46
1125.0	+0.69	30.55
1150.0	+0.70	30.73
1175.0	+0.81	30.81
1200.0	+0.87	30.93
1225.0	+0.88	31.10
1250.0	+0.86	31.30
1275.0	+0.96	31.37
1300.0	+0.97	31.53
1325.0	+1.00	31.66
1350.0	+0.85	31.98
1375.0	+0.77	32.21
1400.0	+0.46	32.68
1425.0	+0.03	33.27
1450.0	-0.48	33.93
1475.0	-0.92	34.52
1500.0	-1.41	35.15
1525.0	-1.66	35.55
1550.0	-1.42	35.45
1575.0	-1.28	35.45

Frequency MHz	Isotropic Gain dBi	Antenna Factor dB/m
1600.0	-0.65	34.95
1625.0	-0.09	34.53
1650.0	+0.48	34.08
1675.0	+1.01	33.69
1700.0	+1.55	33.28
1725.0	+1.86	33.10
1750.0	+2.12	32.97
1775.0	+2.20	33.00
1800.0	+2.27	33.06
1825.0	+2.28	33.16
1850.0	+2.32	33.24
1875.0	+2.35	33.34
1900.0	+2.40	33.40
1925.0	+2.38	33.53
1950.0	+2.35	33.67
1975.0	+2.34	33.80
2000.0	+2.31	33.94
2025.0	+2.32	34.03
2050.0	+2.31	34.15
2075.0	+2.32	34.24
2100.0	+2.36	34.30
2125.0	+2.43	34.34
2150.0	+2.50	34.37
2175.0	+2.57	34.40
2200.0	+2.67	34.40
2225.0	+2.79	34.38
2250.0	+2.83	34.43
2275.0	+2.92	34.44
2300.0	+3.01	34.45
2325.0	+3.03	34.52
2350.0	+3.04	34.61
2375.0	+3.05	34.68
2400.0	+3.00	34.82
2425.0	+3.04	34.87
2450.0	+2.93	35.07
2475.0	+2.94	35.15
2500.0	+2.89	35.28
2525.0	+2.92	35.35
2550.0	+2.78	35.58
2575.0	+2.85	35.59
2600.0	+2.77	35.75
2625.0	+2.77	35.83
2650.0	+2.70	35.98
2675.0	+2.66	36.11
2700.0	+2.61	36.24
2725.0	+2.51	36.42
2750.0	+2.49	36.52
2775.0	+2.50	36.59
2800.0	+2.49	36.67
2825.0	+2.45	36.80



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Frequency MHz	Isotropic Gain dBi	Antenna Factor dB/m
2850.0	+2.44	36.88
2875.0	+2.40	36.99
2900.0	+2.32	37.15
2925.0	+2.26	37.28
2950.0	+2.26	37.35
2975.0	+2.25	37.44
3000.0	+2.22	37.54
3025.0	+2.20	37.63
3050.0	+2.14	37.76
3075.0	+2.09	37.89
3100.0	+2.03	38.02
3125.0	+1.96	38.16
3150.0	+1.89	38.29
3175.0	+1.90	38.35
3200.0	+1.81	38.51
3225.0	+1.72	38.67
3250.0	+1.67	38.78
3275.0	+1.56	38.96
3300.0	+1.48	39.11
3325.0	+1.31	39.35
3350.0	+1.28	39.45
3375.0	+1.14	39.64
3400.0	+1.10	39.75
3425.0	+1.02	39.89
3450.0	+1.08	39.90
3475.0	+1.00	40.04
3500.0	+1.07	40.03
3525.0	+1.10	40.06
3550.0	+1.17	40.05
3575.0	+1.22	40.07
3600.0	+1.25	40.10
3625.0	+1.22	40.19
3650.0	+1.26	40.20
3675.0	+1.19	40.33
3700.0	+1.23	40.35
3725.0	+1.26	40.38
3750.0	+1.41	40.29
3775.0	+1.54	40.22
3800.0	+1.75	40.07
3825.0	+1.87	40.01
3850.0	+2.06	39.87
3875.0	+2.22	39.77
3900.0	+2.33	39.71
3925.0	+2.44	39.66
3950.0	+2.64	39.51
3975.0	+2.74	39.46
4000.0	+2.80	39.46
4025.0	+2.93	39.39
4050.0	+3.00	39.37
4075.0	+3.01	39.41
4100.0	+3.05	39.43

Frequency MHz	Isotropic Gain dBi	Antenna Factor dB/m
4125.0	+3.11	39.42
4150.0	+3.11	39.47
4175.0	+3.13	39.50
4200.0	+3.17	39.51
4225.0	+3.24	39.50
4250.0	+3.27	39.52
4275.0	+3.37	39.47
4300.0	+3.41	39.48
4325.0	+3.46	39.47
4350.0	+3.49	39.49
4375.0	+3.54	39.50
4400.0	+3.58	39.51
4425.0	+3.58	39.56
4450.0	+3.63	39.56
4475.0	+3.64	39.59
4500.0	+3.69	39.59
4525.0	+3.66	39.67
4550.0	+3.69	39.69
4575.0	+3.67	39.75
4600.0	+3.66	39.81
4625.0	+3.57	39.95
4650.0	+3.57	40.00
4675.0	+3.50	40.12
4700.0	+3.43	40.23
4725.0	+3.40	40.31
4750.0	+3.35	40.41
4775.0	+3.26	40.53
4800.0	+3.18	40.66
4825.0	+3.03	40.86
4850.0	+2.81	41.12
4875.0	+2.61	41.37
4900.0	+2.37	41.66
4925.0	+2.13	41.94
4950.0	+1.87	42.24
4975.0	+1.69	42.47
5000.0	+1.57	42.63
5025.0	+1.50	42.74
5050.0	+1.47	42.82
5075.0	+1.50	42.82
5100.0	+1.56	42.81
5125.0	+1.59	42.82
5150.0	+1.51	42.95
5175.0	+1.48	43.02
5200.0	+1.38	43.16
5225.0	+1.30	43.29
5250.0	+1.18	43.44
5275.0	+1.18	43.48
5300.0	+1.10	43.61
5325.0	+1.14	43.60
5350.0	+1.12	43.67
5375.0	+1.13	43.70



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Frequency MHz	Isotropic Gain dBi	Antenna Factor dB/m
5400.0	+1.21	43.66
5425.0	+1.29	43.62
5450.0	+1.38	43.56
5475.0	+1.49	43.50
5500.0	+1.66	43.37
5525.0	+1.77	43.30
5550.0	+1.89	43.21
5575.0	+1.99	43.15
5600.0	+2.14	43.04
5625.0	+2.19	43.03
5650.0	+2.30	42.96
5675.0	+2.38	42.92
5700.0	+2.44	42.89
5725.0	+2.54	42.84
5750.0	+2.66	42.75
5775.0	+2.69	42.76
5800.0	+2.80	42.69
5825.0	+2.88	42.65
5850.0	+2.93	42.63
5875.0	+2.93	42.67
5900.0	+3.03	42.61
5925.0	+3.10	42.57
5950.0	+3.22	42.49
5975.0	+3.31	42.44
6000.0	+3.49	42.29
6025.0	+3.56	42.26
6050.0	+3.68	42.18
6075.0	+3.72	42.18
6100.0	+3.74	42.19
6125.0	+3.73	42.23
6150.0	+3.76	42.24
6175.0	+3.69	42.34
6200.0	+3.71	42.36
6225.0	+3.73	42.37
6250.0	+3.72	42.42
6275.0	+3.74	42.43
6300.0	+3.75	42.46
6325.0	+3.76	42.49
6350.0	+3.74	42.54
6375.0	+3.73	42.58
6400.0	+3.64	42.70
6425.0	+3.57	42.81
6450.0	+3.45	42.96
6475.0	+3.38	43.06
6500.0	+3.32	43.16
6525.0	+3.25	43.26
6550.0	+3.26	43.29
6575.0	+3.24	43.34
6600.0	+3.16	43.45
6625.0	+3.10	43.55
6650.0	+2.97	43.70

Frequency MHz	Isotropic Gain dBi	Antenna Factor dB/m
6675.0	+2.85	43.86
6700.0	+2.64	44.10
6725.0	+2.35	44.42
6750.0	+2.07	44.74
6775.0	+1.87	44.97
6800.0	+1.59	45.28
6825.0	+1.31	45.59
6850.0	+1.10	45.83
6875.0	+0.97	46.00
6900.0	+0.66	46.34
6925.0	+0.31	46.71
6950.0	+0.12	46.94
6975.0	-0.17	47.27
7000.0	-0.42	47.54
7025.0	-0.64	47.80
7050.0	-0.63	47.81
7075.0	-0.68	47.89
7100.0	-0.52	47.77
7125.0	-0.57	47.85
7150.0	-0.45	47.76
7175.0	-0.32	47.66
7200.0	-0.25	47.62
7225.0	-0.32	47.72
7250.0	-0.30	47.72
7275.0	-0.23	47.69
7300.0	-0.35	47.84
7325.0	-0.46	47.98
7350.0	-0.50	48.04
7375.0	-0.46	48.04
7400.0	-0.62	48.22
7425.0	-0.55	48.18
7450.0	-0.51	48.18
7475.0	-0.42	48.11
7500.0	-0.54	48.26
7525.0	-0.41	48.16
7550.0	-0.34	48.12
7575.0	-0.27	48.08
7600.0	-0.17	48.01
7625.0	+0.09	47.78
7650.0	+0.20	47.70
7675.0	+0.17	47.76
7700.0	+0.29	47.66
7725.0	+0.27	47.71
7750.0	+0.22	47.79
7775.0	+0.20	47.84
7800.0	+0.29	47.77
7850.0	+0.38	47.74
7900.0	+0.45	47.72
7950.0	+0.34	47.89
8000.0	+0.16	48.13

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