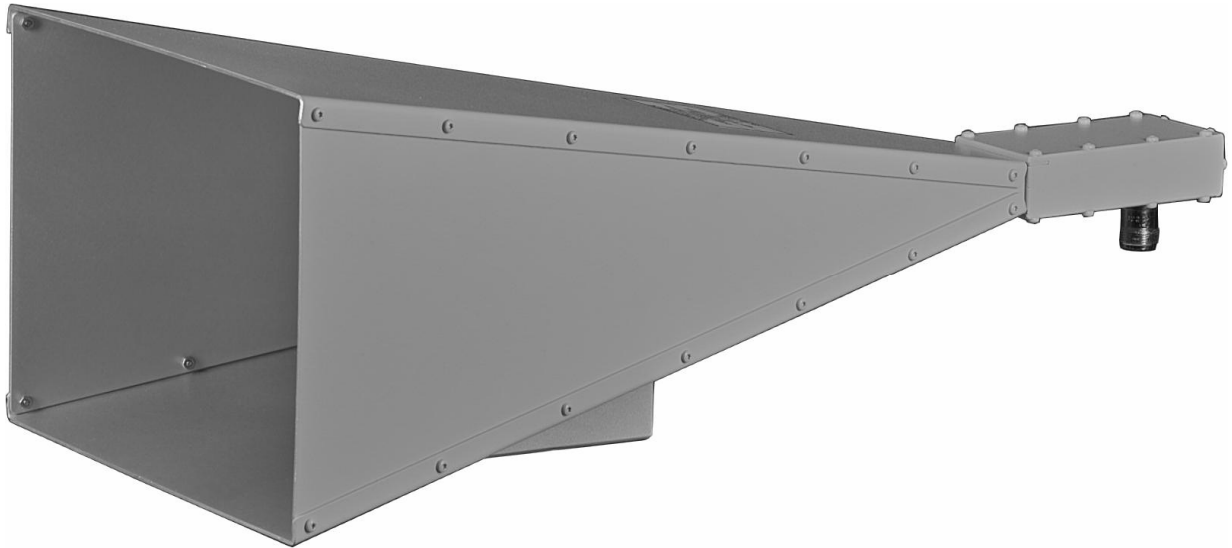


# SCHWARZBECK MESS - ELEKTRONIK

An der Klinge 29 D-69251 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

## Standard Hornantenne HA 9251-48 Standard Horn Antenna HA 9251-48



### Beschreibung:

Linear polarisierte Standard Pyramidenhornantenne mit Koaxialanschluß (wahlweise N oder SC) für höchste Belastbarkeit. Die Antenne wurde für die Erzeugung höchster Feldstärken bei 1 m Messentfernung optimiert.

### Technische Daten:

Frequenzbereich (nominell):	4 - 8 GHz
Frequenzbereich (nutzbar):	3.7...8.5 GHz
Gewinn:	≈ 17-21 dBi
Antennen-Wandlungsmaß:	≈ 25...28 dB/m
Stehwellenverhältnis:	typ. < 1.5
Vor- Rückmaß:	typ. > 27 dB
3 dB Halbwertsbreite E-Ebene:	21° @ 4 GHz 14° @ 6 GHz 12° @ 8 GHz
3 dB Halbwertsbreite H-Ebene:	22° @ 4 GHz 16° @ 6 GHz 13° @ 8 GHz
Anschlußbuchse:	N, SC
Max. Dauer-Eingangsleistung:	1 kW (4 GHz) 0.5 kW (8 GHz)
Max. Impulsleistung:	5 kW
Befestigungsgewinde:	3/8" , 1/4"
Abmessungen:	492 x 164 x 224 mm
Gewicht:	1.6 kg
Material:	Aluminium

### Description:

Linear polarized standard gain horn antenna with coaxial connector (choose N or SC-connector) for highest power handling. The antenna was designed to generate highest fieldstrength at 1 m distance.

### Specifications:

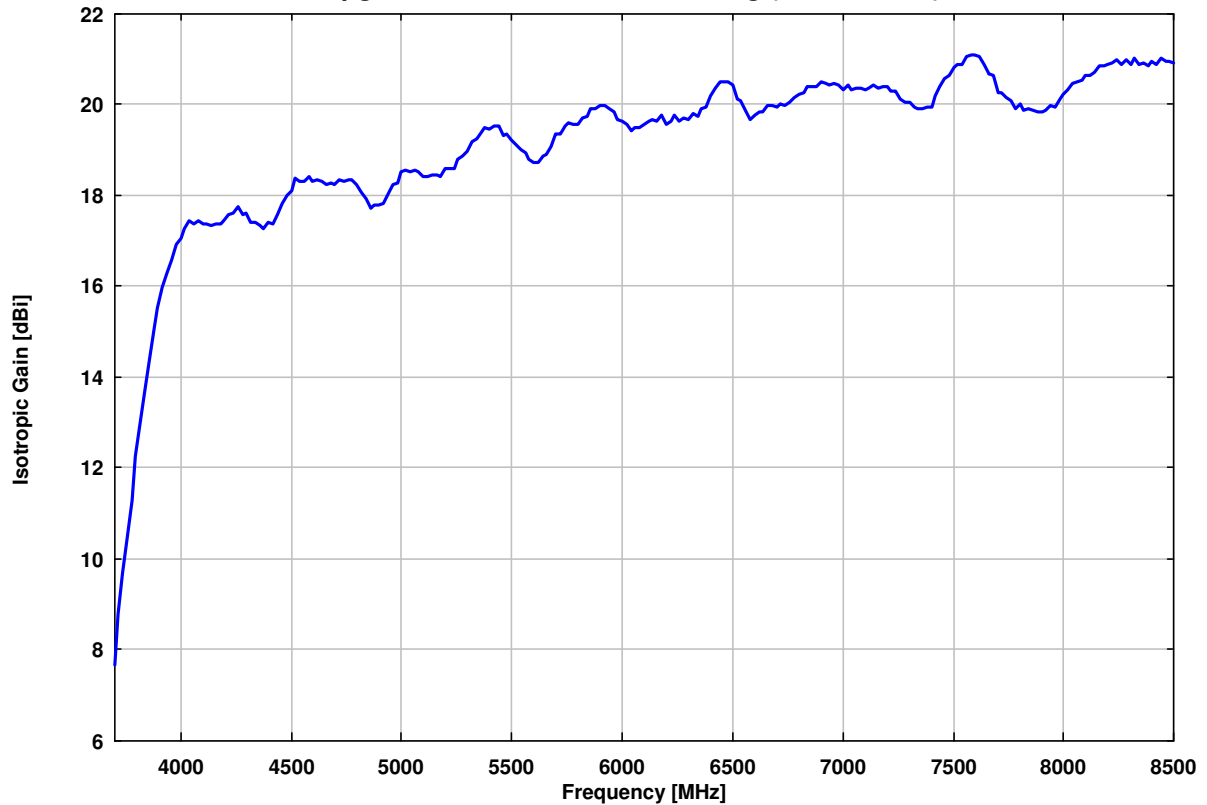
Frequency Range (nominal):
Frequency Range (useable):
Gain:
Antenna Factor:
VSWR:
Front to Back Ratio:
Half Power Beamwidth (E-Plane):
Half Power Beamwidth (H-Plane):
Connector:
Max. Input Power (cw):
Max. Peak Input Power:
Mounting Threads:
Dimensions:
Weight:
Material:

# SCHWARZBECK MESS - ELEKTRONIK

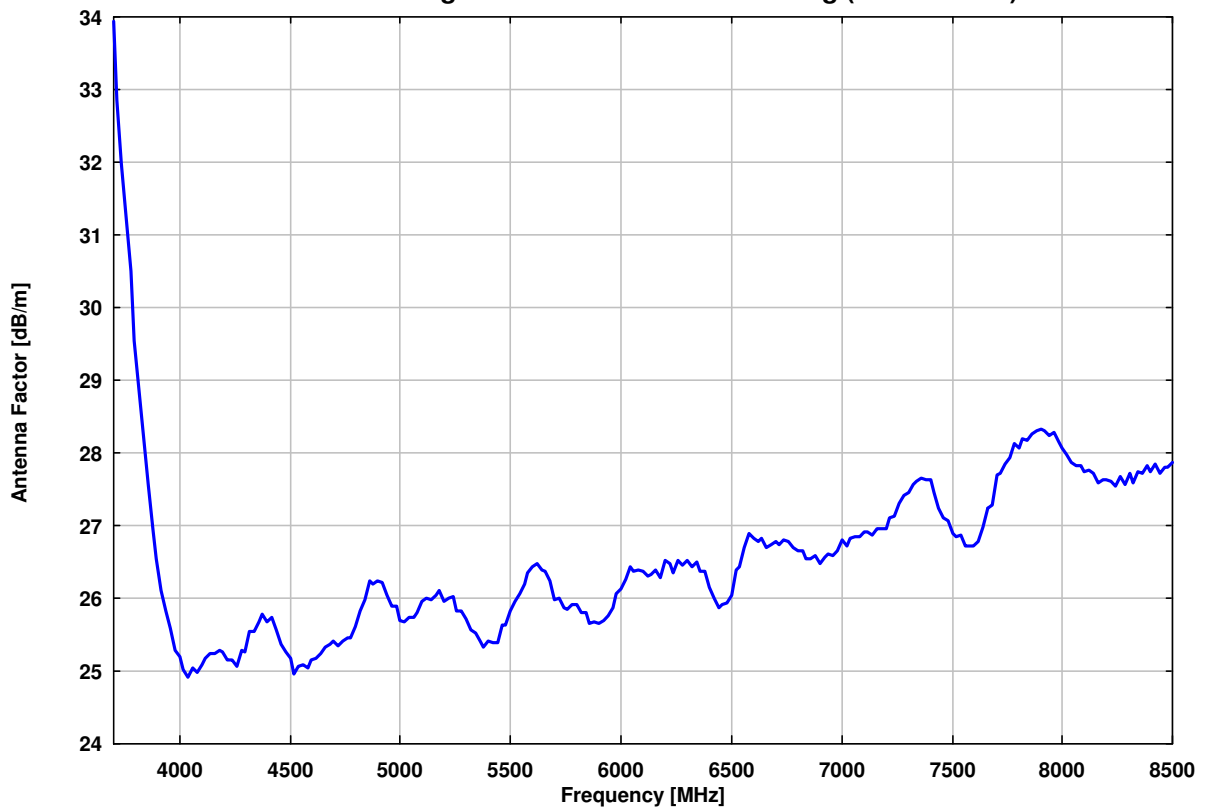
An der Klinge 29 D-69251 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

## Standard Hornantenne HA 9251-48 Standard Horn Antenna HA 9251-48

Isotropiegewinn bei 1 m Messentfernung (Vorderkante)



Antennen-Wandlungsmaß bei 1 m Messentfernung (Vorderkante)



# SCHWARZBECK MESS - ELEKTRONIK

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## Standard Hornantenne HA 9251-48 Standard Horn Antenna HA 9251-48

Frequency	Isotropic gain	Antenna factor
[MHz]	[dBi]	[dB/m]
3700.00	7.65	33.93
3720.00	8.78	32.85
3740.00	9.70	31.98
3760.00	10.49	31.23
3780.00	11.28	30.49
3800.00	12.26	29.56
3820.00	12.99	28.87
3840.00	13.71	28.20
3860.00	14.39	27.56
3880.00	15.07	26.93
3900.00	15.51	26.53
3920.00	15.97	26.12
3940.00	16.30	25.83
3960.00	16.58	25.59
3980.00	16.94	25.28
4000.00	17.08	25.18
4020.00	17.28	25.02
4040.00	17.44	24.91
4060.00	17.36	25.03
4080.00	17.46	24.97
4100.00	17.39	25.09
4120.00	17.36	25.16
4140.00	17.33	25.23
4160.00	17.37	25.23
4180.00	17.36	25.28
4200.00	17.44	25.24
4220.00	17.58	25.15
4240.00	17.63	25.14
4260.00	17.75	25.06
4280.00	17.57	25.28
4300.00	17.63	25.26
4320.00	17.40	25.53
4340.00	17.42	25.55
4360.00	17.34	25.67
4380.00	17.28	25.77
4400.00	17.41	25.68
4420.00	17.39	25.74
4440.00	17.60	25.57
4460.00	17.84	25.37
4480.00	17.99	25.26
4500.00	18.12	25.16
4520.00	18.38	24.94
4540.00	18.31	25.05
4560.00	18.32	25.08
4580.00	18.40	25.04
4600.00	18.32	25.16
4620.00	18.34	25.17
4640.00	18.31	25.24
4660.00	18.26	25.33
4680.00	18.27	25.35
4700.00	18.26	25.40
4720.00	18.35	25.35
4740.00	18.32	25.42

Frequency	Isotropic gain	Antenna factor
[MHz]	[dBi]	[dB/m]
4760.00	18.33	25.44
4780.00	18.36	25.45
4800.00	18.24	25.60
4820.00	18.06	25.82
4840.00	17.94	25.98
4860.00	17.73	26.22
4880.00	17.80	26.19
4900.00	17.78	26.24
4920.00	17.84	26.22
4940.00	18.05	26.04
4960.00	18.25	25.88
4980.00	18.27	25.89
5000.00	18.51	25.69
5020.00	18.57	25.66
5040.00	18.54	25.73
5060.00	18.57	25.73
5080.00	18.54	25.80
5100.00	18.41	25.96
5120.00	18.41	26.00
5140.00	18.47	25.97
5160.00	18.44	26.03
5180.00	18.40	26.11
5200.00	18.58	25.96
5220.00	18.59	25.98
5240.00	18.60	26.01
5260.00	18.81	25.83
5280.00	18.86	25.81
5300.00	18.99	25.72
5320.00	19.18	25.56
5340.00	19.26	25.51
5360.00	19.39	25.41
5380.00	19.51	25.33
5400.00	19.46	25.41
5420.00	19.52	25.38
5440.00	19.54	25.39
5460.00	19.34	25.62
5480.00	19.37	25.63
5500.00	19.21	25.82
5520.00	19.12	25.94
5540.00	19.02	26.07
5560.00	18.93	26.19
5580.00	18.82	26.33
5600.00	18.75	26.43
5620.00	18.74	26.47
5640.00	18.86	26.39
5660.00	18.92	26.36
5680.00	19.07	26.24
5700.00	19.37	25.97
5720.00	19.37	26.00
5740.00	19.53	25.87
5760.00	19.59	25.84
5780.00	19.55	25.91
5800.00	19.58	25.91

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## Standard Hornantenne HA 9251-48 Standard Horn Antenna HA 9251-48

Frequency	Isotropic gain	Antenna factor
[MHz]	[dBi]	[dB/m]
5820.00	19.71	25.81
5840.00	19.74	25.81
5860.00	19.93	25.65
5880.00	19.93	25.68
5900.00	19.99	25.65
5920.00	19.98	25.69
5940.00	19.93	25.77
5960.00	19.85	25.87
5980.00	19.69	26.06
6000.00	19.65	26.13
6020.00	19.56	26.25
6040.00	19.42	26.42
6060.00	19.51	26.36
6080.00	19.51	26.39
6100.00	19.56	26.37
6120.00	19.65	26.31
6140.00	19.66	26.32
6160.00	19.62	26.39
6180.00	19.77	26.27
6200.00	19.56	26.51
6220.00	19.63	26.47
6240.00	19.77	26.35
6260.00	19.64	26.51
6280.00	19.72	26.46
6300.00	19.69	26.52
6320.00	19.80	26.43
6340.00	19.76	26.50
6360.00	19.93	26.36
6380.00	19.96	26.36
6400.00	20.19	26.15
6420.00	20.38	25.99
6440.00	20.53	25.87
6460.00	20.52	25.90
6480.00	20.53	25.92
6500.00	20.43	26.05
6520.00	20.13	26.37
6540.00	20.09	26.44
6560.00	19.87	26.69
6580.00	19.69	26.89
6600.00	19.78	26.83
6620.00	19.85	26.79
6640.00	19.85	26.81
6660.00	19.99	26.70
6680.00	19.99	26.73
6700.00	19.96	26.78
6720.00	20.03	26.74
6740.00	19.99	26.80
6760.00	20.04	26.78
6780.00	20.15	26.69
6800.00	20.22	26.65
6820.00	20.25	26.65
6840.00	20.39	26.53
6860.00	20.40	26.55
6880.00	20.40	26.57

Frequency	Isotropic gain	Antenna factor
[MHz]	[dBi]	[dB/m]
6900.00	20.52	26.48
6920.00	20.46	26.56
6940.00	20.44	26.61
6960.00	20.48	26.59
6980.00	20.45	26.65
7000.00	20.33	26.79
7020.00	20.44	26.71
7040.00	20.34	26.83
7060.00	20.36	26.84
7080.00	20.37	26.85
7100.00	20.33	26.92
7120.00	20.37	26.90
7140.00	20.44	26.85
7160.00	20.37	26.95
7180.00	20.39	26.95
7200.00	20.42	26.95
7220.00	20.29	27.10
7240.00	20.29	27.12
7260.00	20.13	27.31
7280.00	20.05	27.41
7300.00	20.04	27.45
7320.00	19.94	27.57
7340.00	19.93	27.60
7360.00	19.91	27.65
7380.00	19.95	27.63
7400.00	19.97	27.63
7420.00	20.18	27.45
7440.00	20.42	27.23
7460.00	20.57	27.10
7480.00	20.63	27.07
7500.00	20.83	26.89
7520.00	20.90	26.84
7540.00	20.90	26.87
7560.00	21.08	26.71
7580.00	21.09	26.72
7600.00	21.12	26.72
7620.00	21.08	26.78
7640.00	20.90	26.98
7660.00	20.67	27.23
7680.00	20.64	27.29
7700.00	20.25	27.70
7720.00	20.26	27.71
7740.00	20.15	27.84
7760.00	20.09	27.93
7780.00	19.92	28.12
7800.00	20.01	28.05
7820.00	19.88	28.20
7840.00	19.93	28.18
7860.00	19.87	28.26
7880.00	19.85	28.30
7900.00	19.85	28.32
7920.00	19.89	28.30
7940.00	19.99	28.23
7960.00	19.97	28.27

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## Standard Hornantenne HA 9251-48 Standard Horn Antenna HA 9251-48

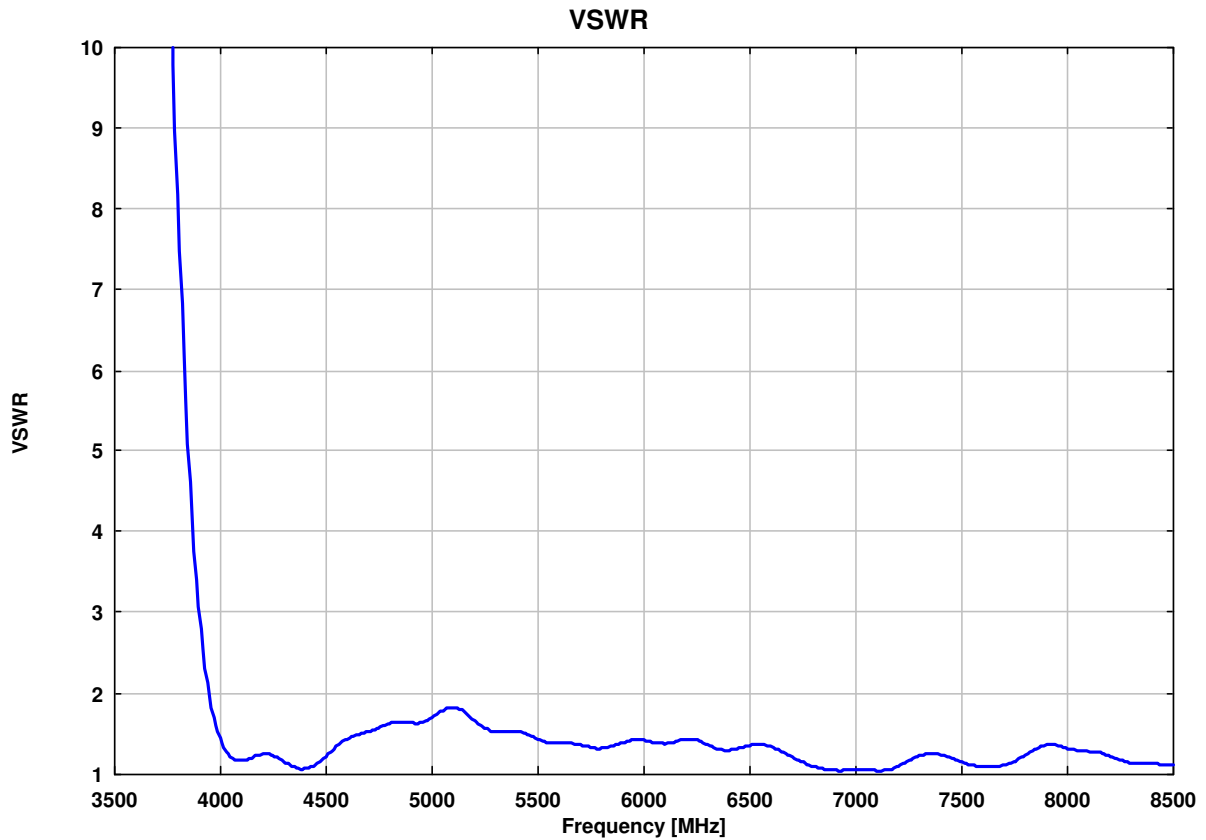
Frequency	Isotropic gain	Antenna factor
[MHz]	[dBi]	[dB/m]
7980.00	20.12	28.14
8000.00	20.23	28.05
8020.00	20.33	27.97
8040.00	20.47	27.86
8060.00	20.53	27.82
8080.00	20.55	27.82
8100.00	20.66	27.73
8120.00	20.65	27.76
8140.00	20.73	27.70
8160.00	20.87	27.58
8180.00	20.85	27.63
8200.00	20.88	27.62
8220.00	20.92	27.60
8240.00	21.00	27.54

Frequency	Isotropic gain	Antenna factor
[MHz]	[dBi]	[dB/m]
8260.00	20.88	27.68
8280.00	21.01	27.57
8300.00	20.90	27.70
8320.00	21.03	27.59
8340.00	20.91	27.73
8360.00	20.94	27.72
8380.00	20.85	27.83
8400.00	20.97	27.74
8420.00	20.88	27.85
8440.00	21.03	27.72
8460.00	20.97	27.80
8480.00	20.98	27.81
8500.00	20.93	27.88

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## Standard Hornantenne HA 9251-48 Standard Horn Antenna HA 9251-48



**Erzeugte Elektrische Feldstärke 1 m vor der Antennenöffnung  
unmoduliert, Eingangsleistung an 7/16-Buchse, Reflexionsfreie Umgebung**  
**Generated Electrical Fieldstrength in front of Antenna Aperture  
no modulation, Input Power at 7/16-Connector, Anechoic Environmental Conditions**

