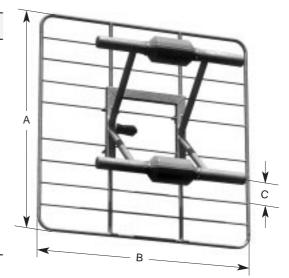
- Broadband directional antenna of hot-dip galvanized steel.
- Especially suitable for square and round masts.

Type No.	K 52 30 57	K 52 30 51	
Input	7-16 female	N female	
Frequency range	174 – 2	30 MHz	
VSWR	< 1	.08	
Gain (ref. to λ/2-dipole)	8 dB at r	nid-band	
Impedance	50 Ω		
Polarization	Horizontal or vertical		
Max. power	2 kW	1 kW	
	(higher power upon request)		
Weight	23	kg	
Wind load (at 160 km/h)			
Horizontal	frontal / lateral:	750 N / 315 N	
Vertical	frontal / lateral:	750 N / 375 N	
Max. wind velocity	225	km/h	
Packing size	1350 x 1350	0 x 550 mm	



Material: Hot-dip galvanized steel.

Weather protection: Fiberglass.

Mounting: By means of the pair of hot-dip galvanized

steel clamps:

K 61 12 0 to pipes of 60 – 115 mm \varnothing K 61 13 0 to pipes of 115 – 210 mm \varnothing

(please order separately).

Mounting dimensions upon request.

Ice protection: Even under severe icy conditions the antenna is

still functional due to its heavy-duty construction and the fiberglass covers for the feeding points.

Grounding: Via mounting parts.

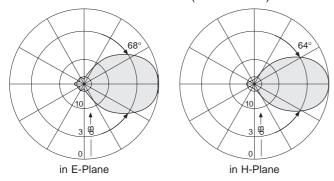
Combinations: The antenna is especially suitable as a

component in arrays to achieve various radiation patterns. Particularly for square and round

masts.

Scope of supply: Antenna without mounting clamps.

A: 1300 mm B: 1300 mm C: 490 mm



- Horizontally polarized broadband directional antenna of hot-dip galvanized steel.
- Especially suitable for square masts.

Type No.	K 52 33 57	K 52 33 51	
Input	7-16 female	N female	
Frequency range	174 – 2	30 MHz	
VSWR	< '	1.1	
Gain (ref. to λ/2-dipole)	11 dB at mid-band		
Impedance	50 Ω		
Polarization	Horizontal		
Max. power	2 kW	1 kW	
	(higher power upon request)		
Weight	60	kg	
Wind load (at 160 km/h)	frontal:	1627 N	
•	lateral:	876 N	
Max. wind velocity	225	km/h	
Packing size	285 x 135	5 x 50 cm	

Material: Hot-dip galvanized steel.

Weather protection: Fiberglass.

Mounting: By means of the pair of hot-dip galvanized

steel clamps:

K 61 16 01 to pipes of 77 mm \varnothing K 61 16 02 to pipes of 60 – 125 mm \varnothing

(please order separately).

Further mounting hardware and mounting

dimensions upon request.

Ice protection: Even under severe icy conditions the antenna is

still functional due to its heavy-duty construction and the fiberglass covers for the feeding points.

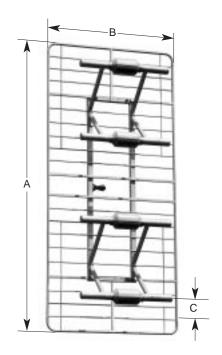
Grounding: Via mounting parts.

Combinations: The antenna is especially suitable as a

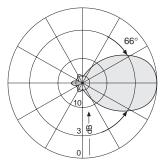
component in arrays to achieve various radiation

patterns. Particularly for square masts.

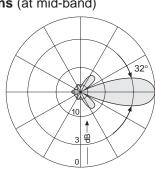
Scope of supply: Antenna without mounting clamps.



A: 2800 mm B: 1300 mm C: 415 mm



in E-plane Horizontal Radiation Pattern



in H-plane Vertical Radiation Pattern

 Vertically polarized broadband directional antenna of hot-dip galvanized steel.

Type No.	K 53 33 57	K 53 33 51	
Input	7-16 female	N female	
Frequency range	174 – 2	30 MHz	
VSWR	< '	1.1	
Gain (ref. to λ/2-dipole)	11 dB at mid-band		
Impedance	50 Ω		
Polarization	Vertical		
Max. power	2 kW	1 kW	
	(higher power upon request)		
Weight	55	kg	
Wind load (at 160 km/h)	frontal:	2.13 kN	
•	lateral:	1.45 kN	
Max. wind velocity	225 km/h		
Packing size	285 x 135 x 50 cm		

Material: Hot-dip galvanized steel.

Weather protection: Fiberglass.

Mounting: By means of 8 screws M 16 to a suitable

construction.

Mounting hardware and mounting dimensions

upon request.

Ice protection: Even under severe icy conditions the antenna is

still functional due to its heavy-duty construction and the fiberglass covers for the feeding points.

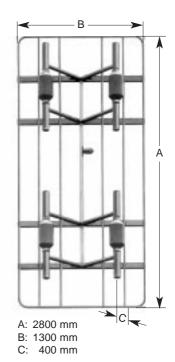
Grounding: Via mounting parts.

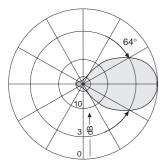
Combinations: The antenna is especially suitable as a

component in arrays to achieve various radiation

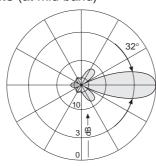
patterns.

Scope of supply: Antenna with 8 screws M 16.





in H-plane Horizontal Radiation Pattern



in E-plane Vertical Radiation Pattern

- Broadband directional antenna of hot-dip galvanized steel.
- Especially suitable for triangular and round masts.

Type No.	K 52 34 517	K 52 34 527	
Input	7-16 female		
Frequenca range	174 – 202 MHz	202 – 230 MHz	
VSWR	< 1	.15	
Gain (ref. to $\lambda/2$ -dipole)	7 dB		
Impedance	50 Ω		
Polarization	Horizontal		
Max. power	2 kW (higher power upon request)		
Weight	20 kg		
Wind load (at 160 km/h)	frontal:	375 N	
	lateral:	375 N	
Max. wind velocity	225	km/h	

Material: Hot-dip galvanized steel.

Weather protection: Fiberglass.

Mounting: By means of the pair of hot-dip galvanized

steel clamps:

K 61 12 0 to pipes of 60 – 115 mm \varnothing K 61 13 0 to pipes of 115 – 210 mm \varnothing

(please order separately).

Further mounting hardware and mounting

dimensions upon request.

Ice protection: Even under severe icy conditions the antenna is

still functional due to its heavy-duty construction and the fiberglass covers for the feeding points.

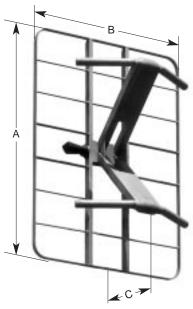
Grounding: Via mounting parts.

Combinations: The antenna is especially suitable as a

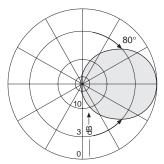
component in arrays to achieve various radiation patterns. Particularly for triangular and round

masts.

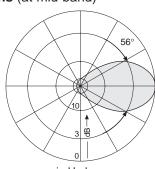
Scope of supply: Antenna without mounting clamps.



A: 1200 mm B: 860 mm C: 405 mm



in E-plane Horizontal Radiation Pattern



in H-plane Vertical Radiation Pattern

• Broadband directional antenna of weather-resistant aluminum.

	I		
Type No.	K 52 31 57	K 52 31 51	
Input	7-16 female	N female	
Frequency range	174 – 2	30 MHz	
VSWR	< 1	.15	
Gain (ref. to $\lambda/2$ -dipole)	7.5 dB at	mid-band	
Impedance	50 Ω		
Polarization	Horizontal or vertical		
	by conversion of two clamps		
Max. power	500 Watt		
Weight	7 kg		
Wind load			
Horizontal (160 km/h)	frontal / lateral:	450 N / 240 N	
Vertical (150 km/h)	frontal / lateral:	400 N / 290 N	
Max. wind velocity			
Horizontal	225 km/h		
Vertical	150 km/h		
Packing size	1240 x 1240 x 120 mm		

A C B

A: 1200 mm B: 1200 mm C: 360 mm

Material: Weather-resistant aluminum.

Mounting: To pipes of $60 - 115 \text{ mm } \emptyset \text{ by means}$

of mounting clamps, supplied

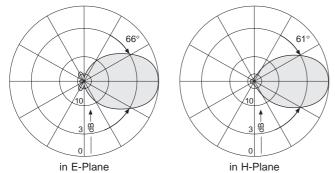
Grounding: Via mounting parts.

Combinations: The antenna is especially suitable as a

component in arrays to achieve various

radiation patterns.

Special features: The antenna will be shipped dismounted.



Directional Antenna for TV and DAB

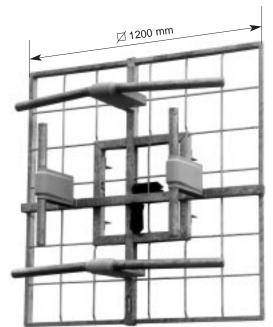
TV: 174 - 223 MHz / DAB: 220 - 240 MHz

SITEL Caponago Tel.02 / 95.74.36.09

768 000

- Dual-polarized antenna.
- Specially designed for simultaneous operation of TV in Band III and DAB in Channel 12 and Channel 13.

Type No.	768 000
Input	TV: 1 x 7-16 female / horizontal
	DAB: 1 x 7-16 female / vertical
Frequency range for	
horizontal polarization	1 Channel at Band III
vertical polarization	DAB: 220 – 240 MHz
VSWR	s < 1.15
Gain (ref. ^λ /2-dipole)	7.5 dB
Impedance	50 Ω
Polarization	TV: horizontal / DAB: vertical
Max. power	2 kW per input
	(at 40 °C ambient temperature)
Weight	30 kg
Windload (at 160 km/h)	frontal: 815 N
	lateral: 570 N
Max. wind velocity	225 km/h



KATHREIN

Antennen · Electronic

Material: Hot-dip galvanized steel. Radome: Fiberglass

Mounting: Using M16 screws (supplied) to suitable

> attachment construction. Antennas K 52 30 5. may be replaced by 768 000 without altering

mounting fixture.

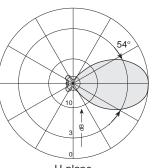
Mounting dimensions upon request.

Scope of delivery: Antenna supplied without clamps.

Grounding: Via mounting parts.

Radiation Patterns for TV (at mid-band)

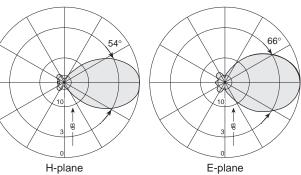
E-plane Horizontal Radiation Pattern



H-plane Vertical Radiation Pattern

Radiation Patterns for DAB





Horizontal Radiation Pattern

Vertical Radiation Pattern

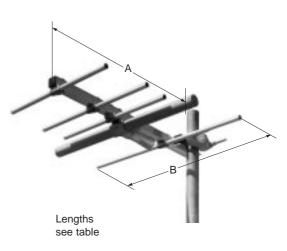
Directional Antenna for TV and DAB

174 ... 230 MHz K 52 40 5.., 768 494

SITEL Caponago Tel.02 / 95.74.36.09

- 5 element broadband Yagi antenna of weather-proof aluminum.
- Component for low power transmitting antennas.
- The directional antenna type 768 494 is especially for DAB.

Type No. for input	7-16 female N female	K 52 40 517 K 52 40 511	K 52 40 527 K 52 40 521	768 494	
Frequency	range	174 – 202 MHz	202 – 230 MHz	215 – 242 MHz	
	(ch = channel)	(ch 5 – ch 8)	(ch 9 - ch 12)		
Dimensions	Α	930 mm	810 mm	830 mm	
	В	885 mm	765 mm	765 mm	
Gain (ref. to	λ/2-dipole)		6 dB		
VSWR		< 1.15		< 1.2	
Impedance		50 Ω			
Polarization		Horizontal		Vertical	
Max. power		100 Watt (h	igher power	400 Watt	
		upon re	equest)		
Weight			5 kg		
Wind load (at 160 km/h)				
	frontal:	114 N	102 N	100 N	
	lateral:	102 N	91 N	150 N	
Max. wind velocity		225 km/h			
Packing size	е	970 x 200 x 135 mm			



KATHREIN

Antennen · Electronic

K 52 40 5..

Material: Weather-proof aluminum.

Radiator in fiberglass radome.

Mounting: To pipes of $60 - 115 \text{ mm } \emptyset$ by means

of mounting clamps, supplied.

Mounting dimensions upon request.

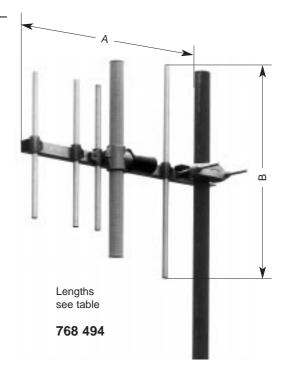
Grounding: Via mounting parts.

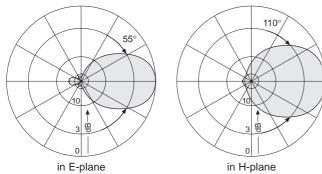
Combinations: The antenna is especially suitable as a

component in arrays to achieve various

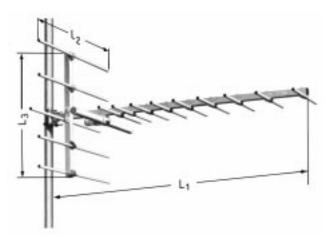
radiation patterns.

Special features: The antenna will be shipped dismounted.

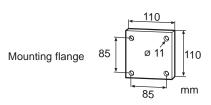




• 15 element broadband Yagi antenna of weather-proof aluminum.



Lengths see table



7-16 female N female	K 52 17 517 K 52 17 511	K 52 17 527 K 52 17 521	K 52 17 537 K 52 17 531		
Frequency range	174 – 188 MHz	188 – 209 MHz	209 – 230 MHz		
VSWR	< 1.15				
Gain (ref. to $\lambda/2$ -dipole)		8 dB			
Impedance		50 Ω			
Polarization		Horizontal or vertical			
Max. power	100 Wa	100 Watt (higher power upon request)			
Weight	14 kg	12.7 kg	12 kg		
Dimensions (Lengths)					
L1	2000 mm	1850 mm	1700 mm		
L2	1200 mm	1100 mm	950 mm		
L3	900 mm	850 mm	750 mm		
Wind load (at 160 km/h)	frontal / lateral:	frontal / lateral:	frontal / lateral:		
horizontal:	364 N / 313 N	330 N / 290 N	290 N / 280 N		
vertical:	427 N / 540 N	404 N / 490 N	364 N / 427 N		
Max. wind velocity					
horizontal:	225 km/h	225 km/h	225 km/h		
vertical:	190 km/h	225 km/h	225 km/h		
Packing size	204 x 17 x 17 cm	190 x 17 x 17 cm	175 x 17 x 17 cm		

Material: Elements: Weather-proof aluminum.

Dipole cover: Fiberglass.

Support and flange: Hot-dip galvanized steel.

Mounting: By means of mounting flange, supplied.

Mounting dimensions upon request.

Grounding: Via mounting parts.

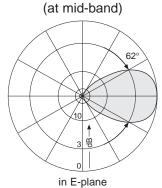
Combinations: Two or more antennas can be combined to

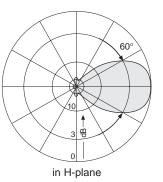
achieve higher gain and longer, narrower beam

width.

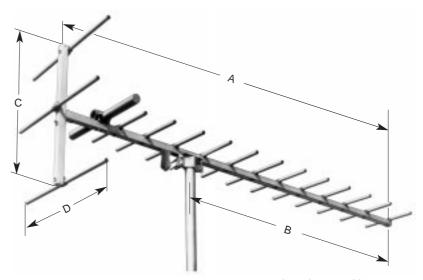
Special features: The antenna is shipped dismounted.

Radiation Patterns





• 16 element Yagi antenna of weather-proof aluminum.



Lengths see table

Type No. for input	7-16 female N female	K 52 14 517 K 52 14 511	K 52 14 527 K 52 14 521	
Frequency r	ange	174 – 202 MHz	202 – 230 MHz	
- 1 7	(ch = channel)	(ch 5 – ch 8)	(ch 9 – ch 12)	
VSWR	,	< 1	,	
Gain (ref. to	λ/2-dipole)	11	dB	
Impedance		50	Ω	
Polarization		Horizontal		
Max. power		100 Watt (higher power upon request)		
Weight		12 kg	11 kg	
Dimensions	(Lengths) A	3360 mm	2900 mm	
	В	2060 mm	2000 mm	
	С	880 mm	760 mm	
	D	955 mm	825 mm	
Wind load (a	at 140 km/h)			
	frontal:	210 N	185 N	
	lateral:	290 N	250 N	
Max. wind v	elocity	140 km/h		
Packing size	e	335 x 17 x 17 cm	288 x 17 x 17 cm	

Material: Support: Weather-proof aluminum. Dipole cover:

Fiberglass. Clamp: Hot-dip galvanized steel.

Mounting: To pipes of $60 - 115 \text{ mm } \emptyset$ by means

of mounting clamps, supplied.

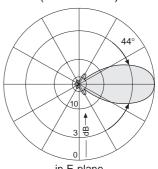
Grounding: Via mounting parts.

Combinations: Two or more antennas can be combined to

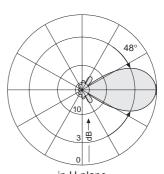
achieve higher gain and longer, narrower beam

width.

Special features: The antenna is shipped dismounted.

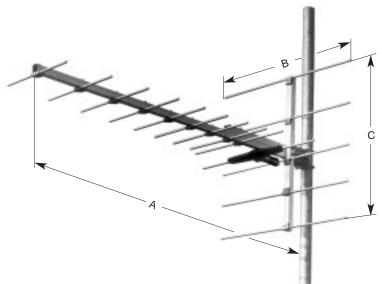


in E-plane Horizontal Radiation Pattern



in H-plane Vertical Radiation Pattern

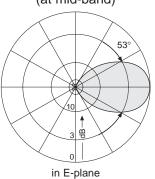
• Particularly light 15 element Yagi antenna of weather-proof aluminum.

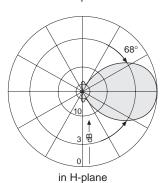


Lengths see table

Type No. for input	7-16 fer N fer		K 52 07 517 K 52 07 511	K 52 07 527 K 52 07 521	K 52 07 537 K 52 07 531	
Frequency ra	ange		174 – 188 MHz	188 – 209 MHz	209 – 230 MHz	
VSWR				< 1.2		
Gain (ref. to	$\lambda/2$ -dipole)			8 dB		
Impedance				50 Ω		
Polarization			Horizontal or vertical by conversion of the U-bolts			
Max. power			100 Watt (higher power upon request)			
Weight	Weight		7.5 kg	7.2 kg	6.8 kg	
Dimensions	(Lengths)	Α	2010 mm	1865 mm	1720 mm	
		В	1020 mm	940 mm	840 mm	
		С	900 mm	850 mm	760 mm	
Wind load (a	t 160 km/h)	frontal / lateral:	frontal / lateral:	frontal / lateral:	
horizontal:		239 N / 279 N	222 N / 267 N	199 N / 250 N		
vertical:		239 N / 313 N	222 N / 290 N	199 N / 250 N		
Max. wind ve	elocity		225 km/h			
Packing size			204 x 17 x 17 cm	190 x 17 x 17 cm	176 x 17 x 17 cm	

Radiation Patterns (at mid-band)





Material: Weather-proof aluminum: Dipole cover: Hostalen.

Mounting: To pipes of $57 - 105 \text{ mm } \emptyset$ by means

of supplied U-bolts.

Grounding: Via mounting parts.

Combinations: Two or more antennas can be combined to

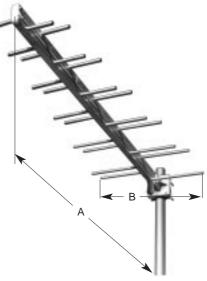
achieve higher gain and longer, narrower beam

width.

Special features: The antenna is shipped dismounted.

- Logarithmic-periodic broadband directional antenna with high side-lobe suppression.
- Especially rugged design of hot-dip galvanized steel.

Type No.	K 52 22 57	K 52 22 51	
Input	7-16 female	N female	
Frequency range	174 – 2	30 MHz	
VSWR	< '	1.2	
Gain (ref. to λ/2-dipole)	8.5 dB at	mid-band	
Impedance	50	Ω	
Side-libe suppression	> 25	5 dB	
Polarization	Horizontal or vertical by conversion		
	of two	clamps	
Max. power	1 kW (higher power upon request)		
Weight	27	kg	
Wind load (at 160 km/h)			
horizontal:	frontal / lateral:	250 N / 500 N	
vertikal:	frontal / lateral:	250 N / 313 N	
Max. wind velocity	225	km/h	
Packing size	245 x 29	x 110 cm	



A: 2300 mm B: 890 mm

Material: Hot-dip galvanized steel.

Mounting: To pipes of $60 - 115 \text{ mm } \emptyset$ by means

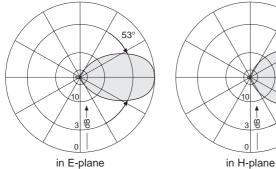
of mounting clamps, supplied. Mounting dimensions upon request.

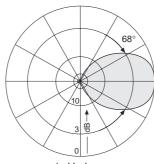
Grounding: Via mounting parts.

Combinations: Several antennas can be combined to increase

the gain and to produce radiation patterns with

very high side-lobe suppressions.





• Dipole antenna for side-mounting to masts.

Type No.	769 006
Input	7-16 female
Frequency range	220 – 240 MHz
VSWR	< 1.2
Gain (ref. to λ/2-dipole)	5.5 dB in preferred direction
Impedance	50 Ω
Polarization	Vertical
Max. power	2 kW (at 40 °C ambient temperature)
Weight	15 kg
Wind load (at 160 km/h)	438 N
Max. wind velocity	225 km/h
Packing size	231 x 42 x 16 cm

Material: Hot-dip galvanized steel.

Radome: Fiberglass.

Mounting: Laterally using 8 screws M 12 x 50 to suitable

flange (see draft).

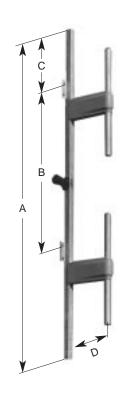
Ice protection: Even under severe icy conditions the antenna is

still functional due to its heavy-duty construction and the fiberglass covers for the feeding points.

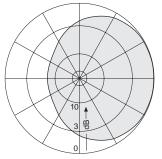
Grounding: Via mounting parts.

Note: The radiation in the mast direction will be

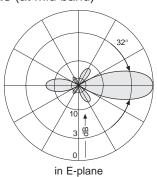
reduced proportionally to the size of the mast.



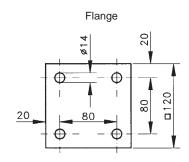
A: 2205 mm B: 1100 mm C: 372 mm D: 315 mm



in H-plane Horizontal Radiation Pattern



In E-plane
Vertical Radiation Pattern



767 655, 767 656



SITEL Caponago Tel.02 / 95.74.36.09

Type No.	767 655	767 656
Input	7-16 female	
Frequency range	223 – 240 MHz	
VSWR	< 1.2	
Gain (ref. λ/2-dipole)	3 dB	6 dB
Impedance	50 Ω	
Polarization	Vertical	
Max. power	500 Watt	1000 Watt
	(at 40 °C ambient temperature)	
Weight	37 kg	67 kg
Windload (at 160 km/h)	500 N	900 N
Max. wind velocity	200 km/h	
Length	2900 mm	5000 mm
Radome diameter	186 mm	
Packing size	3030 x 400 x 400 mm	5230 x 400 x 400 mm

Material: Radiator: Hot-dip galvanized steel.

Radome: Fiberglass, brown. Antenna base: Aluminum.

With standard flange with 320 mm diameter. Mounting:

> Attention: The aluminum flange may only be mounted to a flat base-plate (max. unevenness 0.5 mm) with a drilling hole of 60 mm diameter

in the center for the 7-16 connector.

Grounding: Continuous earth connection between antenna

tip and base.

Remark: Special versions with higher input power or

modified frequency range or electrical beam tilt

are available upon request.



Vertical Radiation Patterns

