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

Type No.		K 52 31 187	752 119	
Input		7-16 female		
Frequency range		87.5 – 108 MHz		
VSWR		< 1	.15	
Gain (ref. to λ/2-dipole)		7.5 dB at mid-band		
Impedance		50 Ω		
Polarization		Horizontal	Vertical	
Max. power		2.5 kW (higher power upon request)		
Weight		64 kg		
Wind load (at 160 km	/h)			
f	rontal:	1500 N	1500 N	
I	ateral:	815 N	825 N	
Max. wind velocity		225	km/h	

Material: Hot-dip galvanized steel.

Radome: Fiberglass.

Mounting: 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.

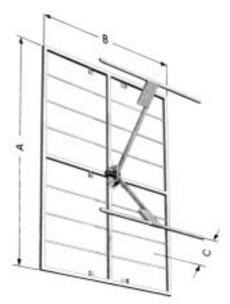
Combinations: The antenna is especially suitable as a

component in arrays to achieve various radiation

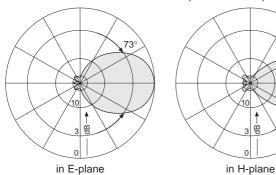
patterns. Particularly for square masts.

Scope of supply: Antenna without mounting clamps.

Special features: The antenna is shipped dismounted.



A: 2500 mm B: 1700 mm C: 730 mm



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

Type No.	K 52 34 17	
Input	7-16 female	
Frequency range	87.5 – 108 MHz	
VSWR	< 1.2	
Gain (ref. to λ/2-dipole)	7 dB at mid-band	
Impedance	50 Ω	
Polarization	Horizontal	
Max. power	2.5 kW (higher power upon request)	
Weight	66 kg	
Wind load (at 160 km/h)	frontal: 1690 N	
	lateral: 876 N	
Max. wind velocity	225 km/h	

Material: Hot-dip galvanized steel.

Radome: Fiberglass.

Mounting: 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.

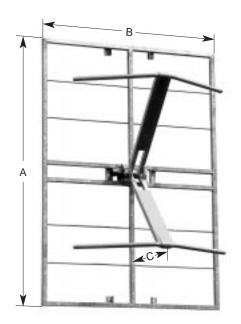
Combinations: The antenna is especially suitable as a

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

masts.

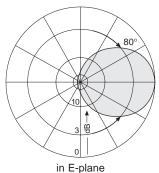
Scope of supply: Antenna without mounting clamps.

Special features: The antenna is shipped dismounted.

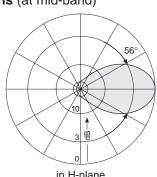


A: 2490 mm B: 1740 mm C: 760 mm

Radiation Patterns (at mid-band)



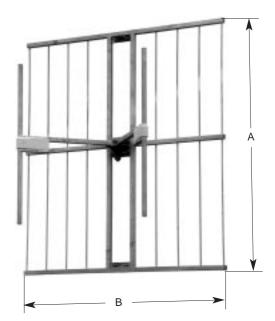
Horizontal Radiation Pattern



in H-plane Vertical Radiation Pattern

- Vertically polarized directional antenna.
- Especially suitable for triangular and round masts.

Type No.		772 500	
Input		7-16 female	
Frequency range		87.5 – 108 MHz	
VSWR		< 1.15	
Gain (ref. λ/2-dipole)		6 dB at mid-band	
Impedance		50 Ω	
Polarization		Vertical	
Max. power		2.5 kW (higher power upon request)	
Weight		65 kg	
Wind load (at 160 km/h)		frontal: 1620 N	
		lateral: 990 N	
Max. wind velocity		225 km/h	
Dimensions	Α	2200 mm	
	В	2000 mm	



Material: Hot-dip galvanized steel.

Radome: Fiberglass.

Mounting: To a vertical pipe of \varnothing 89 mm by 3 pcs. U-bolts

(supplied) or to proper flanges.

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

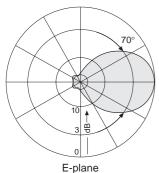
masts.

Scope of supply: Antenna consisting of two half-wave dipoles with

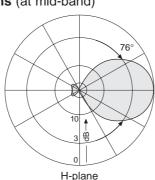
reflector screen and 3 U-bolts.

Special features: The antenna is shipped dismounted.

Radiation Patterns (at mid-band)



Vertical Radiation Pattern



H-plane
Horizontal Radiation Pattern

Dual Band Directional Antenna 66 - 73 MHz / 87.5 - 108 MHz



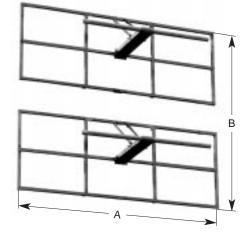
768 476

Material:

SITEL Caponago Tel.02 / 95.74.36.09

- Dipole panel for OIRT and CCIR bands for FM radio.
- Especially suitable for square masts.

Type No.	768 476		
Input	7-16 female		
Frequency range	OIRT: 66 – 73 MHz / CCIR: 87.5 – 108 MHz		
VSWR	66 − 73 MHz: ≤ 1.3 / 87.5 − 108 MHz: ≤ 1.2		
Gain (ref. λ/2-dipole)	66 – 73 MHz: 6 dB / 87.5 – 108 MHz: 7.5 dB		
Impedance	50 Ω		
Polarization	Horizontal		
Max. power	6 kW (higher power upon request)		
Weight	135 kg		
Wind load (at 160 km/h)	frontal: 2.5 kN		
	lateral: 1.1 kN		
Max. wind velocity	225 km/h		



Hot-dip galvanized steel.

Radome: Fiberglass.

Mounting: 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

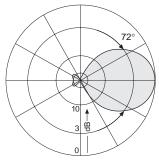
component in arrays to achieve various radiation

patterns. Particularly for square masts.

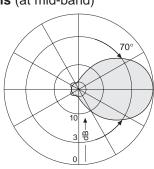
Scope of supply: Antenna consisting of two half-wave dipoles with

reflector screens.

Special features: The antenna is shipped dismounted. A: 2840 mm B: 2580 mm



in E-plane Horizontal Radiation Pattern

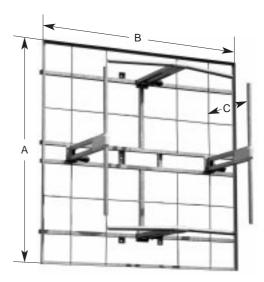


in H-plane Vertical Radiation Pattern

- Broadband directional antenna made of hot-dip galvanized steel
- Especially suitable for square masts.
- Optionally for circular, horizontal, vertical or slant polarization.

4 dipoles are arranged symmetrically in front of a reflector screen. With suitable feeding the antenna radiates circularly polarized. An isolation of 40-50 dB between horizontal and vertical pairs of dipoles is achieved through the spezial design. This design permits the transmission of 2 programs – horizontally and vertically polarized – independently from each other.

Type No.	K 53 32 18 7		
Input	4 x 7-16-female connector		
Frequency range	87.5 – 108 MHz		
VSWR	< 1.25 (linear polarization)		
	< 1.1 (circular polarization)		
Gain (ref. λ/2-dipole)	7.5 dB at mid-band		
	(linear polarization)		
	4.5 dB at mid-band		
	(circular polarization)		
Impedance	50 Ω		
Max. power	2.5 kW for each input		
	(higher power upon request)		
Wind load (at 160 km/h)	Frontal: 1.93 kN		
	Lateral: 1.13 kN		
Max. wind velocity	225 km/h		
Weight	89 kg		



A = B: 2200 mm C = 830 mm

Material: Hot-dip galvanized steel.

Weather protection: fiberglass cover.

Mounting: The antenna must be mounted so that

the bent radiators are horizontally polarized. Mounting dimensions and mounting hardware on request.

Ice protection: Even under severe icy conditions the

antenna is still functional due to its heavy-duty construction and the fibreglass covers of the feeding points.

Grounding: Via mounting parts.

Polarization: Suitable feeding of the horizontal and

vertical dipole pairs optionally result in left or right hand circular or elliptical or slant polarization or simultaneous horizontal and vertical polarization.

Combinations: The antenna is especially suitable as a

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

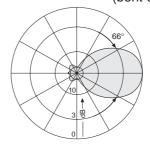
masts.

Scope of supply: Antenna without mounting clamps.

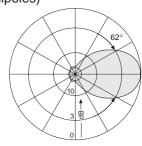
Special features: The antenna will be shipped dismounted.

Radiation Patterns (at mid-band)

Horizontal Polarization (bent dipoles)

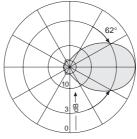


in E-plane Horizontal Radiation Pattern

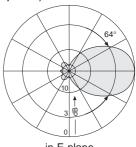


in H-plane Vertical Radiation Pattern

Vertical Polarization (straight dipoles)



in H-plane Horizontal Radiation Pattern



in E-plane Vertical Radiation Pattern

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

Type No.	754 154	
Input	2 x 7-16 female	
Frequency range	87.5 – 108 MHz	
VSWR	< 1.2	
Gain (ref. λ/2-dipole)	3.5 dB at mid-band	
Impedance	50 Ω	
Polarization	Circular	
Max. power	2.5 kW for each input	
	(higher power upon request)	
Weight	60 kg	
Wind load (at 160 km/h)	frontal: 1252 N	
	seitlich: 876 N	
Max. wind velocity	225 km/h	



Radome: Fiberglass.

Mounting: 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.

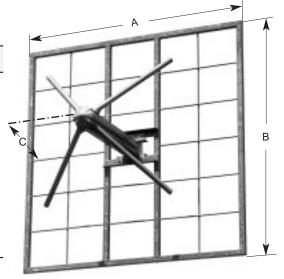
Combinations: The antenna is especially suitable as a

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

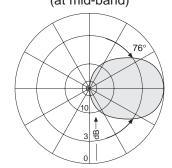
masts.

Scope of supply: Antenna without mounting clamps.

Special features: The antenna is shipped dismounted.



A = B: 1820 mm C: 900 mm

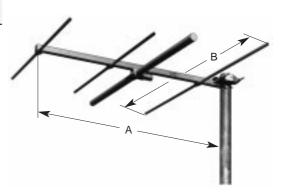


Directional Antenna 87.5 - 108 MHz K 52 40 17, K 52 40 11

SITEL Caponago Tel.02 / 95.74.36.09

- 4 element broadband Yagi antenna.
- Minimum weight.
- Component for low power transmitting antennas.

Type No.	K 52 40 17	K 52 40 11		
Input	7-16 female	N female		
Frequency range	87.5 – 1	08 MHz		
VSWR	s < 1.3			
Gain (ref. λ/2-dipole)	5.5 dB at mid-band			
Impedance	50 Ω			
Polarization	Horizontal (vertical upon request)			
Max. power	500 Watt (at 40 °C ambient temperature)			
Weight	6.5 kg			
Wind load (at 160 km/h)	frontal:	216 N		
	lateral: 154 N			
Max. wind velocity	225	km/h		
Packing size	160 x 160 :	x 1900 mm		



A = 1400 mm

B = 1700 mm

Material: Weather-proof aluminum.

Radiator in fiberglass radome.

Mounting: To pipes of 60 - 115 mm diameter by means

of mounting clamps, supplied.

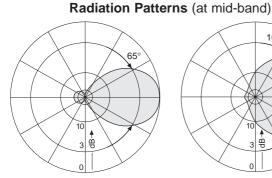
Grounding: Via mounting parts.

Combinations: The antenna is especially suitable as a

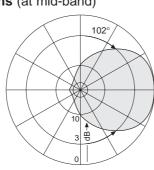
component in arrays to achieve various radiation

patterns.

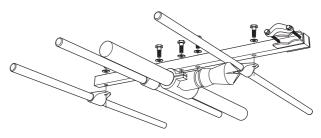
Special features: The antenna is shipped dismounted.



in E-plane Horizontal Radiation Pattern

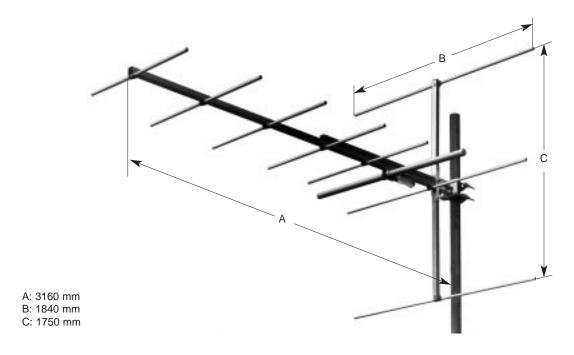


in H-plane Vertical Radiation Pattern



Montage

• 9 element broadband Yagi antenna of weatherproof aluminum.



Type No.	K 52 14 17	K 52 14 11	
Input	7-16 female	N female	
Frequency range	87.5 – 108 MHz		
VSWR	< '	1.4	
Gain (ref. λ/2-dipole)	7.5 dB at mid-band		
Impedance	50 Ω		
Polarization	Horizontal		
Max. power	100 Watt (higher power upon request)		
Weight	16 kg		
Wind load (at 160 km/h)	frontal:	586 N	
	lateral:	529 N	
Max. wind velocity	225 km/h		
Packing size	310 x 22 x 22 cm		

Material: Weather-proof aluminum.

Radiator in fiberglass radome.

Mounting: To pipes of 60 – 115 mm diameter by means

of mounting clamps, supplied.

Mounting dimensions upon request.

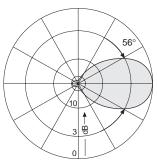
Grounding: Via mounting parts.

Combinations: Two or more antennas can be combined

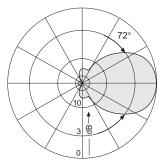
to achieve higher gain and longer, narrower

beam width.

Special features: The antenna is shipped dismounted.



in E-plane Horizontal Radiation Pattern



in H-plane Vertical Radiation Pattern

- 3 element broadband Yagi antenna.
- Mounting to pipes.
- Vertically polarized.
- 4 dB gain.

Type No.	770 776		
Input	7/8" EIA-flange		
Frequency	87.5 – 108 MHz		
VSWR	s < 1.3		
Gain (ref. λ/2-dipole)	4 dB at mid-band		
Impedance	50 Ω		
Polarization	Vertical		
Max. power	5 kW (at 40 °C ambient temperature)		
Weight	13 kg		
Wind load (at 160 km/h)	frontal: 210 N		
	lateral: 350 N		
Max. wind velocity	225 km/h		
Packing size	1890 x 1550 x 92 mm		

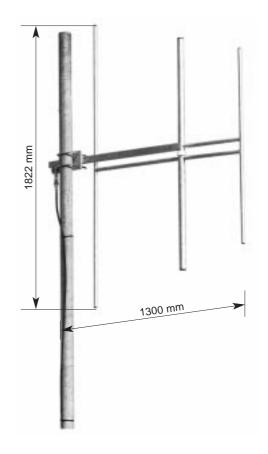
Material: Hot-dip galvanized steel.

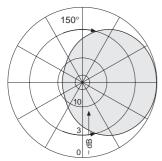
Mounting: To pipes of 60 – 125 mm diameter by means

of 2 U-bolts, supplied.

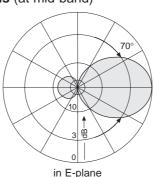
Mounting dimensions upon request.

Grounding: Via mounting parts.

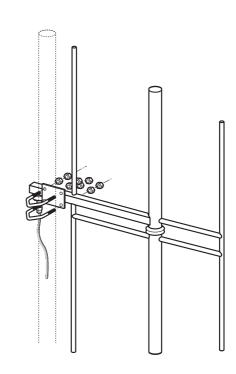




in H-plane Horizontal Radiation Pattern



Vertical Radiation Pattern



Montage

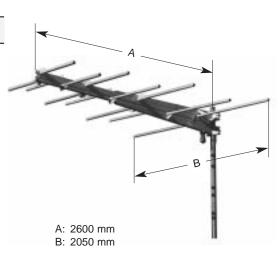
Directional Antenna 87.5 – 108 MHz K 52 22 17, K 52 22 11

Antennen · Electronic

SITEL Caponago Tel.02 / 95.74.36.09

- Logarithmic-periodic broadband directional antenna with extremely low side-lobes.
- Especially rugged design of hot-dip galvanized steel.
- High reliability even under heavy icy conditions.

Type No.	K 52 22 17	K 52 22 11	
Input	7-16 female	N female	
Frequency range	87.5 – 1	08 MHz	
VSWR	< '	1.3	
Gain (ref. to λ/2-dipole)	6 dB at r	nid-band	
Impedance	50	Ω	
Side-lobe suppression	> 25 dB		
Polarization	Horizontal (special version for		
	vertical polarization upon request)		
Max. power	1 kW		
	(higher power upon request)		
Weight	46 kg		
Wind load (at 160 km/h)	frontal:	500 N	
	lateral:	876 N	
Max. wind velocity	225 km/h		
Packing size	2650 x 2100 x 370 mm		



Material: Hot-dip galvanized steel.

Mounting: To pipes of 60 – 115 mm diameter by means

of mounting clamps, supplied.

Mounting dimensions upon request.

Attention: Antenna may not be installed with

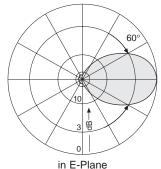
vertical polarization.

Grounding: Via mounting parts.

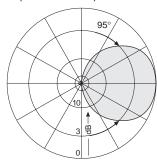
Combinations: Several antennas can be combined to increase

the gain and to produce radiation patterns with

very high side-lobe suppressions.



In E-Plane
Horizontal Radiation Pattern



in H-Plane Vertical Radiation Pattern

- Omnidirectional gain antenna with preferred direction of radiation.
- Mounting to pipes.
- Vertically polarized.
- Gain 2 dB.
- Adjustable dipole-length.

Type No.	750 112					
Input		7-16 female				
Frequency range	87.5–90	90-93.5	93.5–97	97–101	101-105	105-108
Length C/mm	140	110	85	60	35	0
VSWR		< 1.3				
Gain (ref. λ/2-dipole)		2 dB at mid-band				
Impedance		50 Ω				
Polarization		Vertical				
Max. power		1 kW				
Wind load (at 160 km/h)		frontal: 74 N				
		lateral: 125 N				
Weight	9 kg					
Max. wind velocity	225 km/h					
Packing size		1800 x 930 x 107 mm				

Material: Hot-dip galvanized steel.

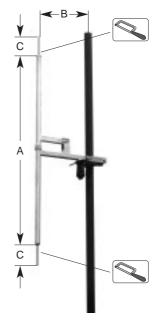
Dipole-extension: Weather-proof aluminum.

Mounting: To pipes of 60 – 115 mm diameter by means

of mounting clamp, supplied.

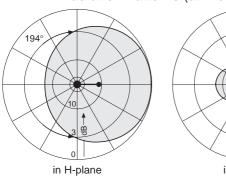
Preferred direction: Mast to radiator (see diagram).

Grounding: Via mounting parts.

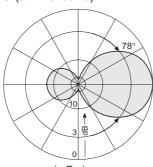


A: 1350 mm / B: 450 mm

C: see table



in H-plane Horizontal Radiation Pattern



in E-plane Vertical Radiation Pattern

Broadband Dipole for Tubular Mast

87.5 - 108 MHz 762 943, 763 715

SITEL Caponago Tel.02 / 95.74.36.09

- Omnidirectional propagation with prefered direction.
- Mounting to pipes.
- Vertically polarized.
- 2 dB gain.

Type No.	762 943	763 715	
Input	7-16 female connector	7/8" EIA-flange	
Max. power	3 kW	5 kW	
	(at 40 °C ambie	ent temperature)	
Frequency range	87.5 – 1	108 MHz	
VSWR	s < 1.3		
Gain (ref. λ/2-dipole)	2 dB at mid-band		
Impedance	50 Ω		
Polarization	Ver	tical	
Wind load (at 160 km/h)	frontal:	74 N	
	lateral: 250 N		
Weight	13 kg		
Max. Wind velocity	225 km/h		
Packing	154 x 117 x 19 cm		

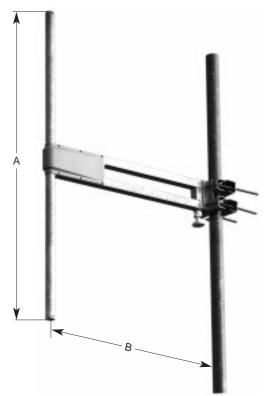
Material: Hot-dip galvanized steel.

Weather protection: fiberglass cover.

Mounting: To pipes of 60 – 125 mm diameter by means

of mounting clamp, supplied.

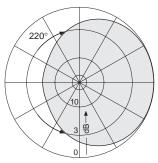
Grounding: Via mounting parts.



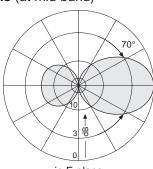
KATHREIN

Antennen · Electronic

A: 1380 mm / B: 830 mm



in H-plane Horizontal Radiation Pattern



in E-plane Vertical Radiation Pattern