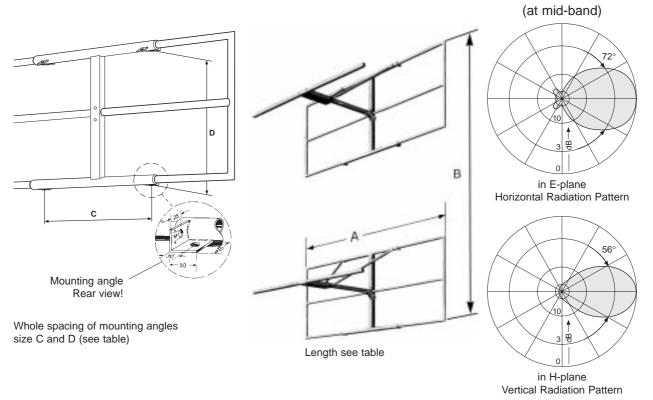
Directional AntennaKATHREIN47 ... 88 MHzK 52 31 8..Antennen · Electronic

SITEL Caponago Tel.02 / 95.74.36.09

Radiation Patterns

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



Туре No.		K 52 31 81 7	K 52 31 82 7	K 52 31 83 7	K 52 31 84 7	K 52 31 85 7	K 52 31 86 7	
Frequency range		47 – 54 MHz	54 – 61 MHz	60 – 68 MHz	66 – 72 MHz	76 – 82 MHz	82 – 88 MHz	
Channel		2	3	4				
			2	3	4	5	6	
Input		7-16 female						
VSWR		< 1.15						
Gain (ref. λ /2-dipole)		7.5 dB						
Polarization		Horizontal (vertical upon request)						
Impedance		50 Ω						
Max. power		6 kW (higher power upon request)						
Dimensions in mm	А	3360	2960	2640	2470	2165	2015	
	В	4530	3980	3560	3335	2915	2720	
	С	1260	1110	990	925	805	750	
	D	1260	1110	990	925	805	750	
Weight in kg		140	124	110	100	94	89	
Wind load in kN (at $v = 160$ km/h)								
	frontal	2.60	2.30	2.10	2.05	1.80	1.60	
	lateral	1.30	1.20	1.10	1.10	1.00	0.90	
Max. wind velocity		225 km/h						
Material:		Hot-dip galvanized steel. Radome: Fiberglass.						
Mounting:		Mounting hardware and mounting dimensions upon request.						
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.

Special features: The antenna is shipped dismounted.

 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.

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

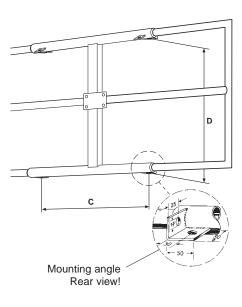
Directional Antenna 47 ... 88 MHz K 52 34 8..

KATHREIN

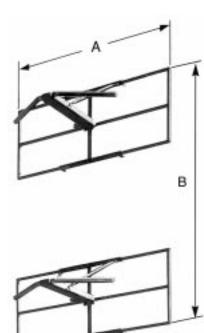
Antennen · Electronic

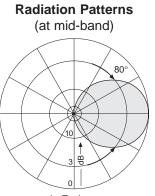
SITEL Caponago Tel.02 / 95.74.36.09

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

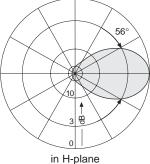


Whole spacing of mounting angles size C and D (see table)





in E-plane Horizontal Radiation Pattern



Vertical Radiation Pattern

Туре No.		K 52 34 81 7	K 52 34 82 7	K 52 34 83 7	K 52 34 84 7	K 52 34 85 7	K 52 34 86 7	
Frequency range		47 – 54 MHz	54 – 61 MHz	60 – 68 MHz	66 – 72 MHz	76 – 82 MHz	82 – 88 MHz	
Channel		2	3	4				
			2	3	4	5	6	
Input		7-16 female						
VSWR		< 1.15						
Gain (ref. $\lambda/2$ -dipole)		7 dB						
Polarization		Horizontal						
Impedance		50 Ω						
Max. power		6 kW (higher power upon request)						
Dimensions in mm	А	3360	2960	2640	2470	2165	2015	
	В	4530	3980	3560	3335	2915	2720	
	С	1260	1110	990	925	805	750	
	D	1260	1110	990	925	805	750	
Weight in kg		148	137	125	117	103	97	
Wind load in kN (at v = 160 km/h)								
	frontal	2.60	2.20	2.05	1.90	1.70	1.55	
	lateral	1.30	1.20	1.15	1.10	1.00	0.95	
Max. wind velocity		225 km/h						
Material:		Hot-dip galvanized steel. Radome: Fiberglass.						
Mounting:		Mounting hardware and mounting dimensions upon request.						
Grounding:		Via mounting parts.						

Length see table

Combinations: The antenna is especially suitable as a component in arrays to achieve various radiation patterns. Particularly for triangular and round masts.

Special features: The antenna is shipped dismounted.

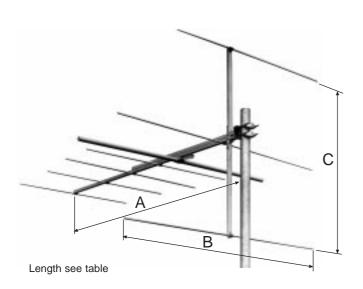
 Ice protection:
 Even under severe icy conditions the antenna is still functional due to its heavy-duty construction and the fiberglass covers for the feeding points.

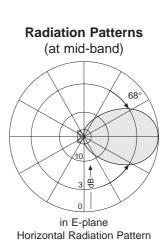
Scope of supply: Antenna consisting of two half-wave dipoles with reflector screens.

Directional Antenna 47 ... 88 MHz K 52 16 8..

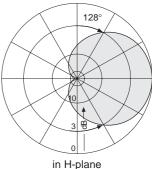
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• 8 element Yagi-antenna of weather-proof aluminum, fiberglass-elements with encapsulated copper stranded wire.





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Vertical Radiation Pattern

Type No. Input 7-16	female	K 52 16 81 7	K 52 16 82 7	K 52 16 83 7	K 52 16 84 7	K 52 16 85 7	K 52 16 86 7		
Input N-male		K 52 16 81 1	K 52 16 82 1	K 52 16 83 1					
Frequency range		47 – 54 MHz	54 – 61 MHz	60 – 68 MHz	66 – 72 MHz	76 – 82 MHz	82 – 88 MHz		
Channel		2	3	4	4	5	6		
VSWR		<1.15							
Gain (ref. λ/2-dipole)		6 dB							
Polarization		Horizontal or vertical by conversion of the clamps							
Impedance		50 Ω							
Max. power		200 Watt (higher power upon request)							
Dimensions in mm	А	3500	2950	2700	2420	2120	1970		
	В	3000	2510	2240	2070	1810	1680		
	С	2225	1950	1740	1610	1410	1310		
Weight in kg		18	15	12.5	11.5	10	9		
Wind load in N (at $v = 160$ km/h)									
Horizontally polarized	frontal	715	615	540	500	440	400		
	lateral	675	575	475	440	375	350		
Vertically polarized	frontal	715	615	540	500	440	400		
	lateral	790	675	615	565	500	465		
Packing in cm		330 x 76 x 13	275 x 76 x 13	250 x 76 x 13	222 x 76 x 13	192 x 76 x13	177 x 76 x 13		
Max. wind velocity		160 [°] km/h							
Material:		Support: Weather-proof aluminum. Elements: Fiberglass with inlaid copper wire. Cover: Fiberglass. Clamp: Hot-dip galvanized steel.							
Mounting:		To pipes of 60 – 115 mm diameter by means of mounting clamps, supplied.							
Special features:		The antenna is shipped dismounted.							
Combinations:		Two or more antennas can be combined to achieve higher gain and longer, narrower beam width.							
Grounding:		Via mounting p	arts.						