Directional Antenna
470 – 860 MHz
K 72 36 4.

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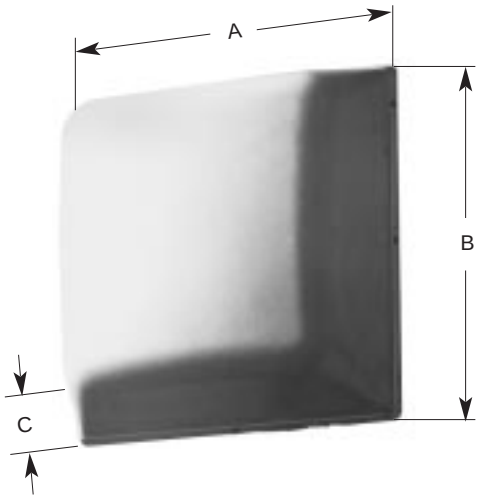
Antennen · Electronic

SITEL Caponago Tel.02 / 95.74.36.09

- Horizontally polarized broadband directional antenna made of aluminum and protected by a fiberglass cover.

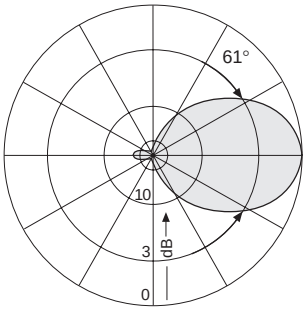
Type No.	K 72 36 47	K 72 36 41
Input	7-16 female	N female
Frequency range	470 – 860 MHz	
VSWR	s < 1.12	
Gain (ref. λ/2-dipole)	8 dB at mid-band	
Impedance	50 Ω	
Polarization	Horizontal	
Max. power	500 Watt (higher power upon request)	
Weight	6 kg	
Wind load (at 160 km/h)	frontal: 375 N	
	lateral: 114 N	
Max. wind velocity	225 km/h	
Packing size	567 x 567 x 294 mm	



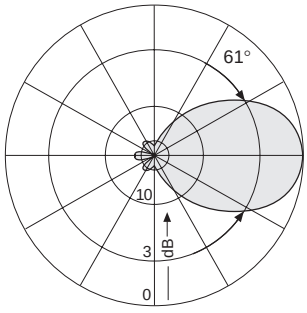
A = B: 500 mm
C: 190 mm

Material:	Reflector screen and dipoles: Weather-resistant aluminum. Protective cover: Fiberglass. Colour: White, upon request orange. Attachment elbow: Hot-dip galvanized steel.
Attachment: (please order separately)	E.g. by using clamps K 61 14 0… to tubular masts of 40 – 521 mm diameter. Further attachment parts and mounting dimensions upon request.
Grounding:	Via mounting parts.
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.
Combinations:	The antenna is particularly suitable for use in combinations in order to achieve various radiation patterns.
Scope of delivery:	Directional antenna with one weather protection unit each for straight connectors and elbow connectors.

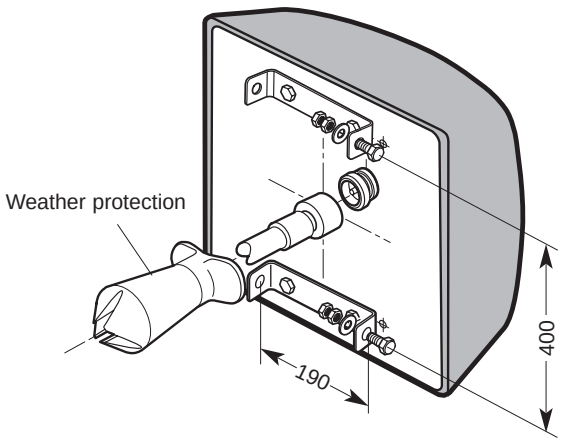
Radiation Patterns (at mid-band)



in E-plane
Horizontal Radiation Pattern



in H-plane
Vertical Radiation Pattern



All dimensions in mm

Directional Antenna
470 – 860 MHz
K 72 31 4., K 73 31 4.

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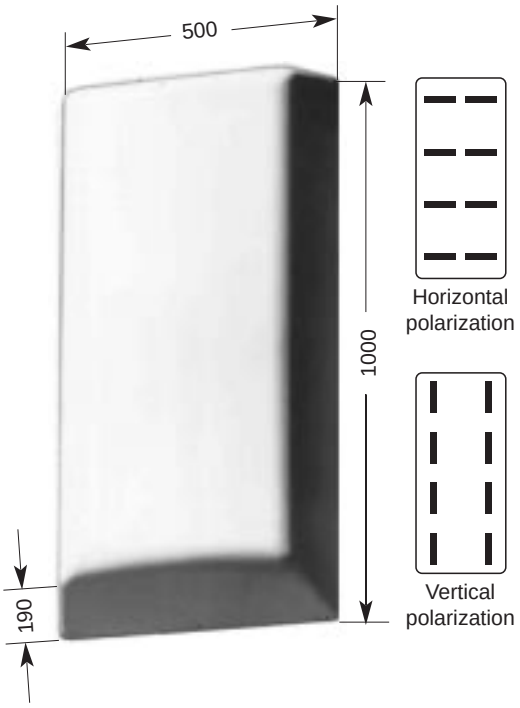
- Horizontally or vertically broadband polarized broadband directional antenna made of aluminum and protected by a fiberglass cover.

Type No. N female	K 72 31 41	K 73 31 41
white with 7-16 female orange with 7-16 female	K 72 31 47 K 72 31 47 R	K 73 31 47 K 73 31 47 R
Polarization	Horizontal	Vertical
VSWR	s < 1.1	s < 1.12
Gain (ref. λ/2-dipole)	11 dB at mid-band	
Frequency range	470 – 860 MHz	
Max. power	N female: 0.5 kW 7-16 female: 1 kW	
Wind load (at 160 km/h)	Frontal: 815 N Lateral: 251 N	
Max. wind velocity	225 km/h	
Weight	12 kg	
Packing size	1062 x 562 x 275 mm	
Height/width/depth	1000 x 500 x 190 mm	



Material: Reflector screen and dipoles: Weather-resistant aluminum. Protective cover: Fiberglass. Attachment elbow: Hot-dip galvanized steel.

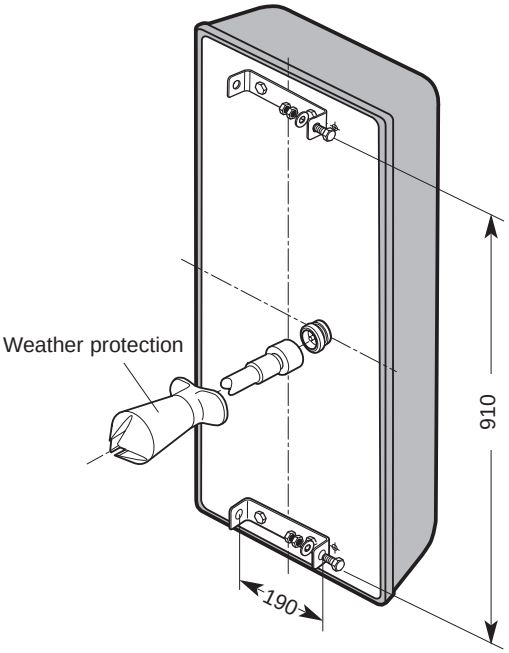
Attachment: (please order separately) E.g. by using clamps K 61 14 0… to tubular masts of 40 – 521 mm diameter. Further attachment parts and mounting dimensions upon request.

Grounding: Via mounting parts.

Ice protection: The dipoles remain fully functioning even in icy conditions as the fiberglass cover protects the whole antenna and also the antenna is of a very robust design.

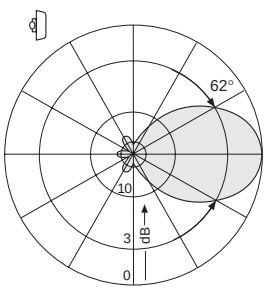
Combinations: The antenna is particularly suitable for use in combinations in order to achieve various radiation patterns.

Scope of supply: Directional antenna with one weather protection unit each for straight connectors and elbow connectors.

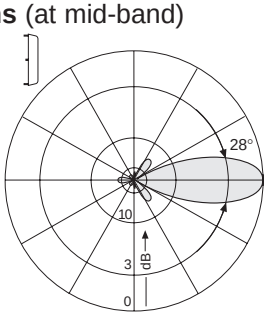


All dimensions in mm

Radiation Patterns (at mid-band)



Horizontal Pattern



Vertical Pattern

Directional Antenna
470 – 860 MHz 774 040, 774 041, 774 046, 774 047

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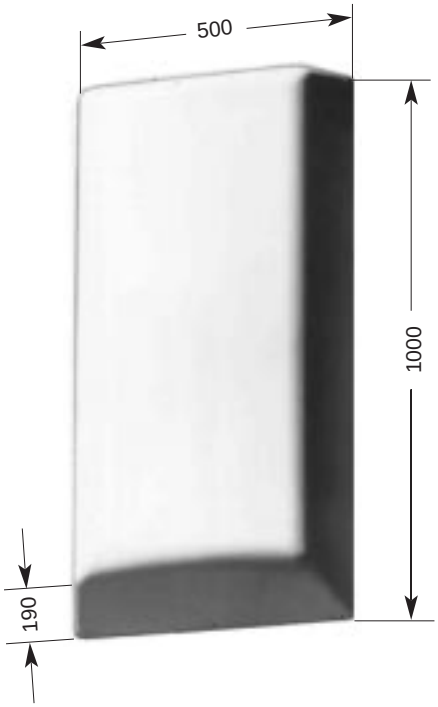
- Horizontally polarized broadband directional antenna made of aluminum and protected by a fiberglass cover.
- Similar to Type K 72 31 47.



Type No. white / orange	774 040 / 774 041	774 046 / 774 047
Input (from below)	7-16 female	13-30 female
Frequency range	470 – 860 MHz	
VSWR	s < 1.1	
Gain (ref. λ/2-dipole)	11 dB at mid-band	
Impedance	50 Ω	
Polarization	Horizontal	
Max. power	1 kW	2 kW
Weight	12 kg	
Wind load (at 160 km/h)	Frontal: 815 N Lateral: 260 N	
Max. wind velocity	225 km/h	
Packing size	1062 x 562 x 294 mm	
Height/width/depth	1000 x 500 x 190 mm	

Material: Reflector screen and dipoles: Weather-resistant aluminum.
Protective cover: Fiberglass.
Attachment plate: Hot-dip galvanized steel.

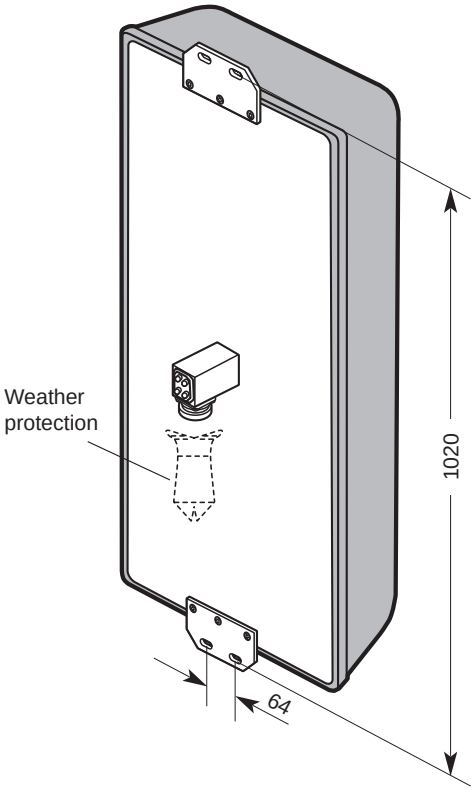
Attachment: Using M 8 x 35 screws (supplied) to suitable attachment construction.
Mounting dimensions upon request.

Grounding: Via mounting parts.

Ice protection: The dipoles remain fully functioning even in icy conditions as the fiberglass cover protects the whole antenna and also the antenna is of a very robust design.

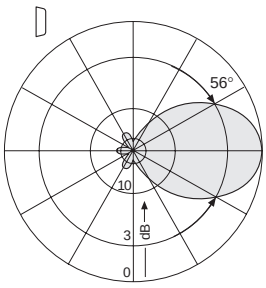
Combinations: The antenna is particularly suitable for use in combinations in order to achieve various radiation patterns.

Scope of supply: The 7-16 female connectors are supplied with one weather protection unit.

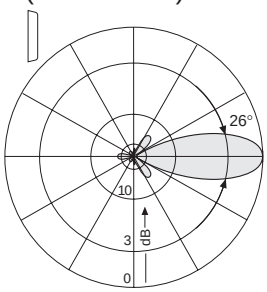


All dimensions in mm

Radiation Patterns (at mid-band)



in E-plane
Horizontal Pattern



in H-plane
Vertical Pattern

Directional Antenna
470 – 860 MHz 772 549, 772 550, 772 999, 773 000, 773 332, 773 333

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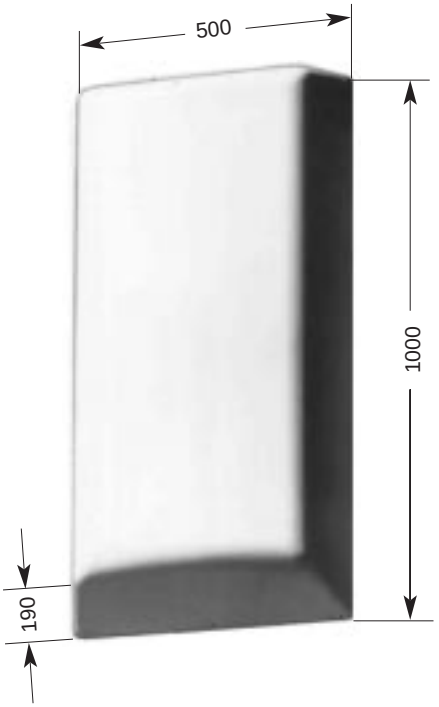
- Horizontally polarized broadband directional antenna made of aluminum and protected by a fiberglass cover.

Type No. white / orange	772 549 / 772 550	773 000 / 772 999	773 333 / 773 332
Input (from below)	7-16 female	13-30 female	1 5/8″ EIA flange
Frequency range	470 – 860 MHz		
VSWR	s < 1.1		
Gain (ref. λ/2-dipole)	11 dB at mid-band		
Impedance	50 Ω		
Polarization	Horizontal		
Max. power	1 kW	2 kW	3 kW
Weight	9.5 kg	10 kg	
Wind load (at 160 km/h)	Frontal: 815 N Lateral: 260 N		
Max. wind velocity	225 km/h		
Packing size	1062 x 562 x 294 mm		
Height/width/depth	1000 x 500 x 190 mm		



Material: Reflector screen and dipoles: Weather-resistant aluminum.
Protective cover: Fiberglass.
Attachment plate: Hot-dip galvanized steel.

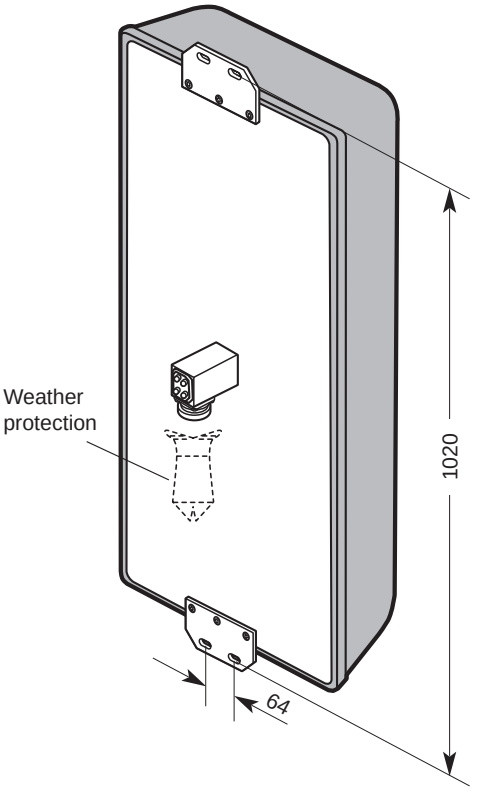
Attachment: Using M 8 x 35 screws (supplied) to suitable attachment construction.
Mounting dimensions upon request.

Grounding: Via mounting parts.

Ice protection: The dipoles remain fully functioning even in icy conditions as the fiberglass cover protects the whole antenna and also the antenna is of a very robust design.

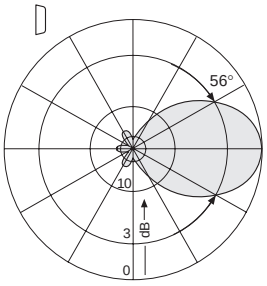
Combinations: The antenna is particularly suitable for use in combinations in order to achieve various radiation patterns.

Scope of supply: The 7-16 female connectors are supplied with one weather protection unit.

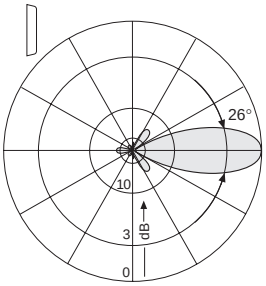


All dimensions in mm

Radiation Patterns (at mid-band)



in E-plane
Horizontal Pattern



in H-plane
Vertical Pattern

Directional Antenna
675 – 860 MHz
K 72 31 5.

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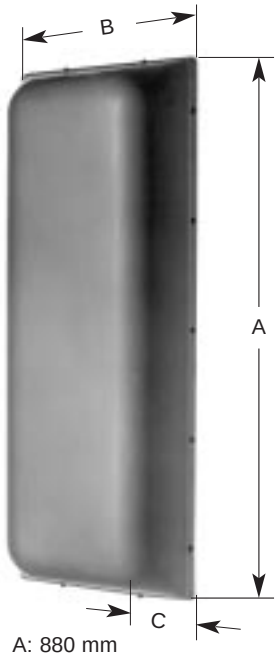
- Horizontally polarized broadband directional antenna made of aluminum and protected by a fiberglass cover

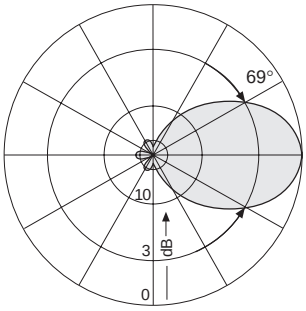


A: 880 mm
B: 315 mm
C: 150 mm

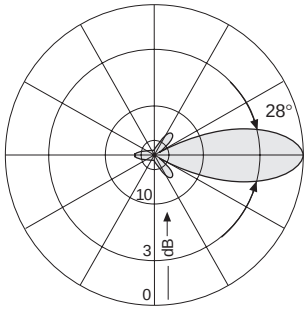
Type No.	K 72 31 57	K 72 31 51
Input	7-16 female	N female
Frequency range	675 – 860 MHz	
VSWR	s < 1.1	
Gain (ref. λ/2-dipole)	10 dB at mid-band	
Impedance	50 Ω	
Polarization	Horizontal	
Max. power	1 kW (higher power upon request)	
Weight	8 kg	
Wind load (at 160 km/h)	frontal: 315 N lateral: 160 N	
Max. wind velocity	225 km/h	
Packing size	97 x 41 x 24 cm	

Material:	Reflector screen and dipoles: Weather-resistant aluminum. Radome: Fiberglass, colour: White, upon request orange. Fittings: Hot-dip galvanized steel.
Attachment: (please order separately)	E.g. by using clamps K 61 14 0… to tubular masts of 40 – 521 mm diameter. Further attachment parts and mounting dimensions upon request.
Grounding:	Via mounting parts.
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.
Combinations:	The antenna is particularly suitable for use in combinations in order to achieve various radiation patterns.
Scope of delivery:	Directional antenna with one weather protection unit each for straight connectors and elbow connectors.

Radiation Patterns (at mid-band)



Horizontal Radiation Pattern



Vertical Radiation Pattern

Directional Antenna
470 – 860 MHz
K 72 23 47, K 72 23 41

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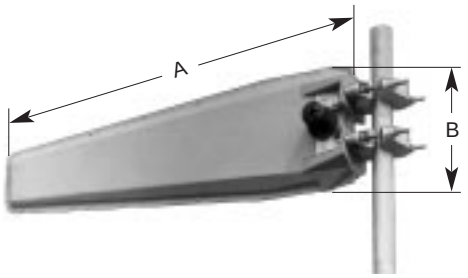
- Logarithmic-periodic broadband directional antenna in fiberglas radome.
- High side-lobe suppression.

Type No.	K 72 23 47	K 72 23 41
Input	7-16 female	N female
Frequency range	470 – 860 MHz	
VSWR	< 1.25	
Gain (ref. to λ/2-dipole)	9 dB at mid-band	
Impedance	50 Ω	
Side-lobe suppression	> 23 dB at 470 – 500 MHz > 25 dB at 500 – 860 MHz	
Polarization	Either horizontal or vertical by repositioning two clamps	
Max. power	30 Watt (higher power upon request)	
Weight	9 kg	
Wind load (at 160 km/h)	For horizontal pol.: frontal/lateral: 63 / 102 N For vertical pol.: frontal/lateral: 63 / 500 N	
Max. wind velocity	For horizontal pol.: 225 km/h For vertical pol.: 180 km/h	
Packing size	1172 x 372 x 224 mm	

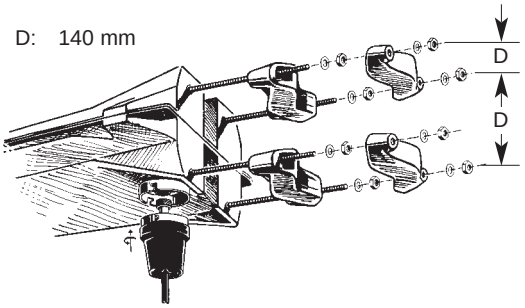
For horizontal polarization

A: 1153 mm
B: 353 mm
C: 180 mm

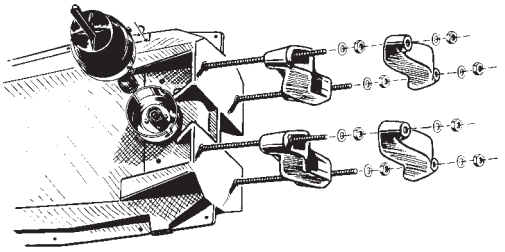


For vertical polarization

D: 140 mm



For horizontal polarization



For vertical polarization

Material: Radiator: Weather-resistant aluminum.
Radome: Fiberglass, colour: Grey.
Mounting kit: Aluminum.
All screws and nuts: Stainless steel.

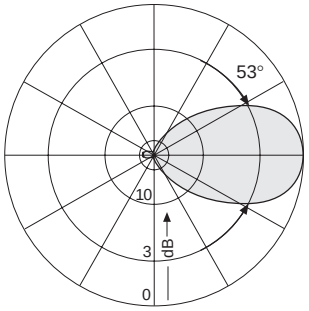
Mounting: To tubular masts of 48 – 115 mm diameter using supplied clamps.

Ice protection: Since radiating system is fully protected by the radome and due to its very sturdy construction, the antenna remains fully operational even under heavy icy conditions.

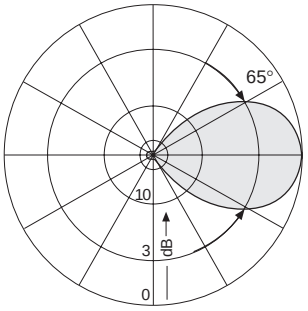
Grounding: Via mounting parts.

Combinations: Several antennas can be combined to increase the gain and to produce radiation patterns with very high side-lobe suppressions.

Radiation Patterns (at mid-band)



In E-Plane



In H-Plane

Omnidirectional Antenna
470 – 860 MHz
767 006, 770 881

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SITEL Caponago Tel.02 / 95.74.36.09

- Broadband omnidirectional antenna.

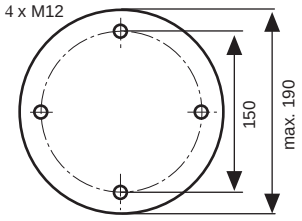
Type No.	767 006	770 881
Number of bays	1	2
Input	7-16 female	7/8″ EIA
Frequency range	470 – 860 MHz	
VSWR	s < 1.1	
Gain	5 dB at mid-band	8 dB at mid-band
Vertical 3 dB beam width	22°	11°
Impedance	50 Ω	
Polarization	Horizontal	
Max. power	1 kW (at 40 °C ambient temperature)	2 kW
Weight	20 kg	40 kg
Wind load (at 160 km/h)	228 N	478 N
Max. wind velocity	225 km/h	
Height H	1.15 m	2.3 m

Material: Omnidirectional antenna in protective fiberglass radome with a diameter of 300 mm. Flange: Aluminum.

Attachment: To tubular masts with a diameter of 100 – 160 mm by using the attachment accessories 768 853 (see photo) or on a flange (see draft).

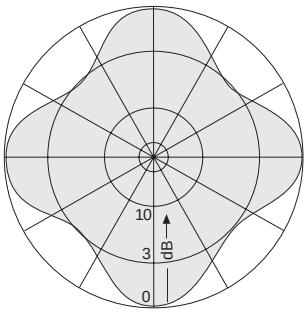
Grounding: Via mounting parts.

Upper side

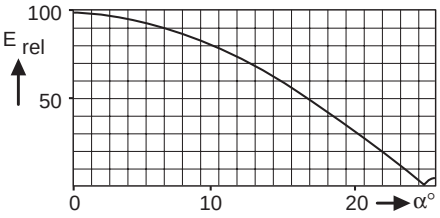


Base flange

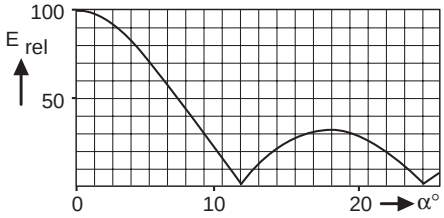
Radiation Patterns (at mid-band)



Horizontal Radiation Pattern



Vertical Radiation Pattern
1 bay (767 006)



Vertical Radiation Pattern
2 bays (770 881)