

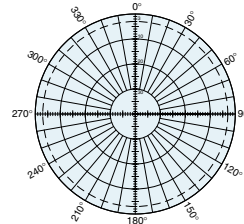
Omnidirectional Antenna 406 to 470 MHz

Kathrein's omnidirectional antennas incorporate the quality design and attention to detail that have established our entire line of professional base station antennas as industry leaders. These antennas feature:

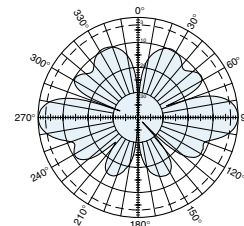
- Collinear broadband design.
- Brass radiator assembly completely housed within the radome.
- Heavy-duty one-piece fiberglass radome.
- Inner conductor and all metal parts at DC ground potential.
- Extreme weather survival design.
- Integral cast aluminum base.
- Stainless steel hardware and fastenings.

General Specifications:

Gain	7 dBi
Impedance	50 ohms
VSWR	< 1.5:1
Polarization	Vertical
Maximum input power	70 watts (at 50°C)
H-plane beamwidth	Omni
E-plane beamwidth	18 degrees (half power)
Connector	N female)
Radome diameter	0.83 inches (21 mm)
Wind survival rating*	120 mph (200 kph)
Mounting	Mounting hardware supplied.
	A. Mounting for 1.6 to 2.2 inch (40 to 56 mm) OD mast.
	B. Mounting for 0.8 to 2.2 inch (20 to 56 mm) OD mast.



H-plane
Horizontal pattern – V-polarization



E-plane
Vertical pattern – V-polarization

Specifications:	K7516211	K7516221	K7516231
Frequency range	406–430 MHz	420–449 MHz	440–470 MHz
Height	79.5 inches (2020 mm)	77.2 inches (1960 mm)	73.6 inches (1870 mm)
Wind load	at 93 mph (150kph) 14 lbf / 61 N)	at 93 mph (150kph) 14 lbf / 59 N)	at 93 mph (150kph) 13 lbf / 56 N)
Weight	3.5 lb (1.6 kg)	3.4 lb (1.55 kg)	3.3 lb (1.5 kg)
Shipping dimensions	82.7 x 4.3 x 3.9 inches (2100 x 110 x 100 mm)	82.7 x 4.3 x 3.9 inches (2100 x 110 x 100 mm)	82.7 x 4.3 x 3.9 inches (2100 x 110 x 100 mm)

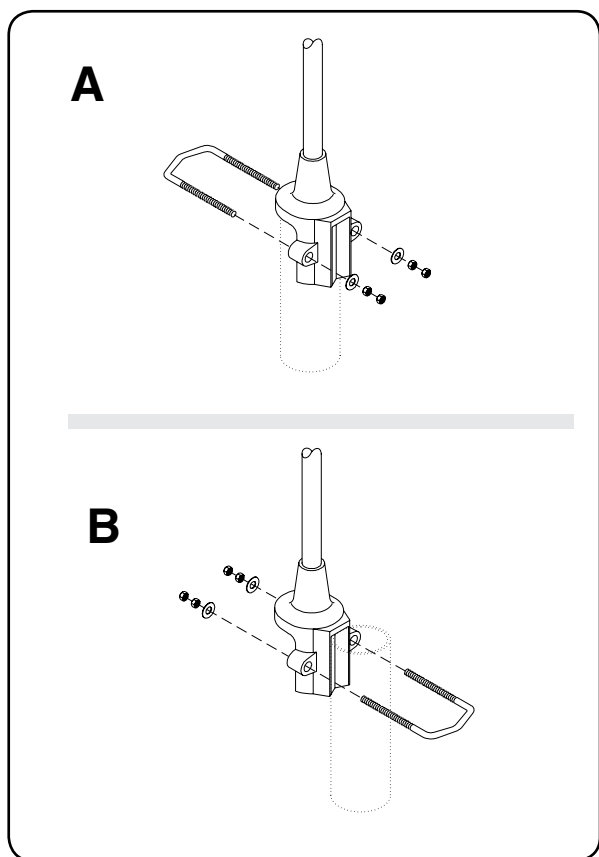
* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



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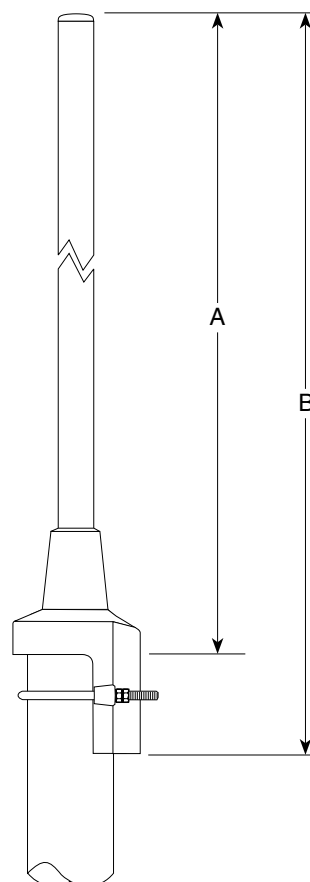


Omnidirectional Antenna 406 to 470 MHz



Mounting Options:

	Description
A	Mounting for 1.6 to 2.1 inch (40 to 54 mm) OD mast
B	Mounting for 0.8 to 2.1 inch (20 to 54 mm) OD mast



Dimensions:	K7516211	K7516221	K7516231
A	79.5 inches (2020 mm)	77.2 inches (1960 mm)	73.6 inches (1870 mm)
B	82.4 inches (2092 mm)	80 inches (2032 mm)	76.5 inches (1942 mm)

Order Information:

Model	Description
K7516211	406–430 MHz Antenna
K7516221	420–449 MHz Antenna
K7516231	440–470 MHz Antenna

All specifications are subject to change without notice. The latest specifications are available at www.kathrein-scala.com.