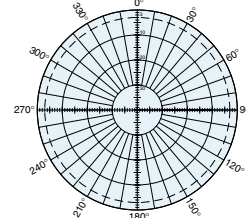


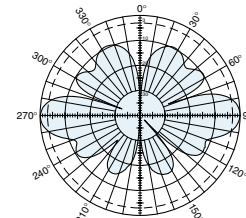
**Omnidirectional Antenna**  
**406 to 470 MHz**

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.



**H-plane**  
Horizontal pattern – V-polarization



**E-plane**  
Vertical pattern – V-polarization

**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.
	<b>A.</b> Mounting for 1.6 to 2.2 inch (40 to 56 mm) OD mast.
	<b>B.</b> Mounting for 0.8 to 2.2 inch (20 to 56 mm) OD mast.

<b>Specifications:</b>	<b>K7516211</b>	<b>K7516221</b>	<b>K7516231</b>
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)

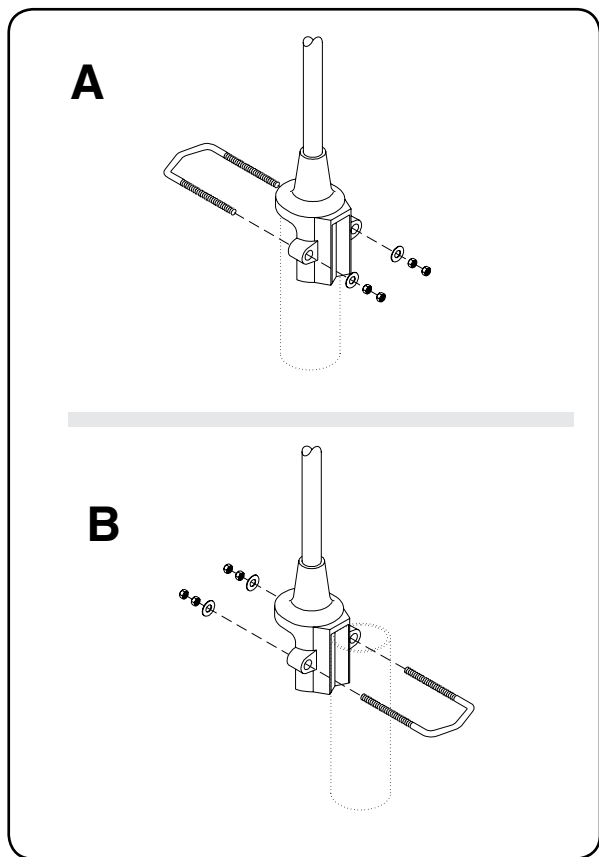
\* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



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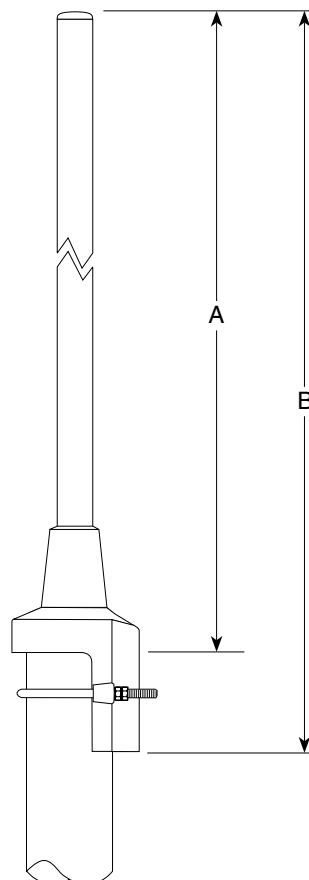


**Omnidirectional Antenna**  
406 to 470 MHz



**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



<b>Dimensions:</b>	<b>K7516211</b>	<b>K7516221</b>	<b>K7516231</b>
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](http://www.kathrein-scala.com).