

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

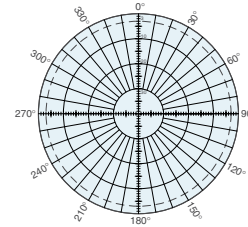
Kathrein's omnidirectional antennas incorporate the quality design and attention to detail that have established our entire line of professional base station antennas as industry leaders. These antennas feature:

- 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.

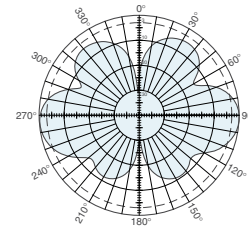
**General Specifications:**

Gain	5 dBi
Impedance	50 ohms
VSWR	< 1.5:1
Polarization	Vertical
Maximum input power	55 watts (at 50°C)
H-plane beamwidth	Omni
E-plane beamwidth	30 degrees (half power)
Connector	N female
Weight	2.6 lb (1.2 kg)
Radome diameter	0.83 inches (21 mm)
Wind survival rating*	120 mph (200 kph)
Shipping weight	5 lb (2.3 kg)
Mounting	Mounting hardware supplied.
	<b>A.</b> Mounting for 1.6 to 2.1 inch (40 to 54 mm) OD mast.
	<b>B.</b> Mounting for 0.8 to 2.1 inch (20 to 54 mm) OD mast.

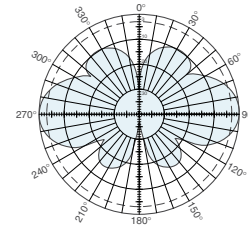
<b>Specifications:</b>	<b>K7515211</b>	<b>K7515221</b>
Frequency range	406–430 MHz	440–470 MHz
Height	50.1 inches (1273 mm)	45 inches (1144 mm)
Wind load	at 93 mph (150kph) 9 lbf / 40 N)	at 93 mph (150kph) 8 lbf / 35 N)
Shipping dimensions	53.1 x 4.3 x 3.9 inches (1350 x 110 x 100 mm)	49.2 x 4.3 x 3.9 inches (1250 x 110 x 100 mm)



H-plane  
Horizontal pattern – V-polarization



K7515211 E-plane  
Vertical pattern – V-polarization



K7515221 E-plane  
Vertical pattern – V-polarization

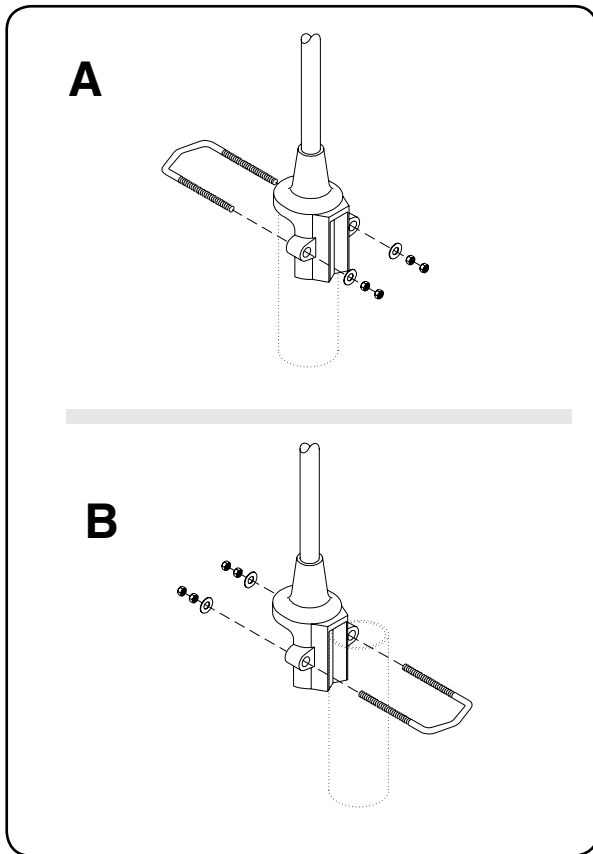


\*Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



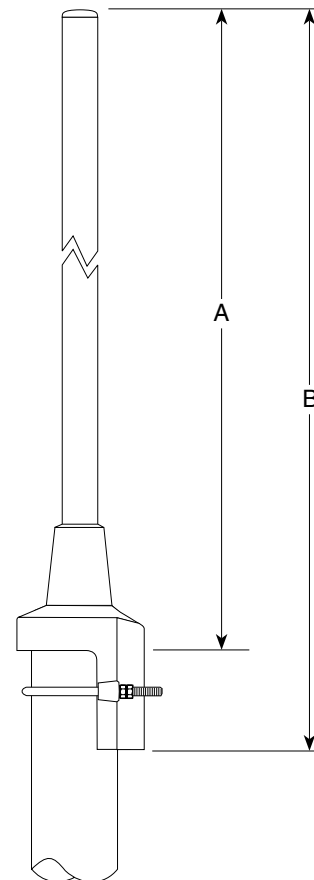
11065-B  
936.073/a

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:	K7515211	K7515221
A	50.1 inches (1273 mm)	45 inches (1144 mm)
B	53 inches (1345 mm)	47.9 inches (1216 mm)

**Order Information:**

Model	Description
K7515211	406–430 MHz Antenna
K7515221	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).