

Omnidirectional Antenna 146 to 174 MHz

The Kathrein K55162n1 series are omnidirectional broadband antennas are intended for use in professional fixed-station applications in the 146 to 174 MHz band. They feature:

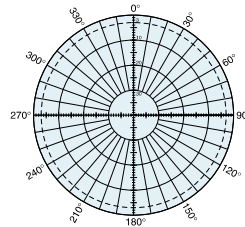
- Collinear broadband design.
- Brass radiator completely housed within radome.
- Heavy duty one piece fiberglass radome.
- Inner conductor and all metal parts at DC ground potential.
- Integral cast aluminum base.
- Stainless steel hardware and fastenings.

Specifications:	K5516211
Frequency range	146–155 MHz
Weight	15.5 lb (7 kg)
Height	188.2 inches (4780 mm)
Wind load	at 93 mph (150kph) 50 lbf / 220 N
Shipping dimensions	190.9 x 6.3 x 6.3 inches (4850 x 160 x 160 mm)

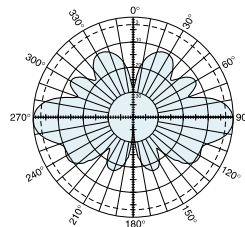
	K5516221
Frequency range	155–164 MHz
Weight	14.5 lb (6.5 kg)
Height	178.3 inches (4530 mm)
Wind load	at 93 mph (150kph) 48 lbf / 210 N
Shipping dimensions	181.1 x 6.3 x 6.36 inches (4600 x 160 x 160 mm)

	K5516231
Frequency range	164–174 MHz
Weight	14.5 lb (6.5 kg)
Height	168.3 inches (4275 mm)
Wind load	at 93 mph (150kph) 50 lbf / 220 N
Shipping dimensions	171.3 x 6.3 x 6.3 inches (4350 x 160 x 160 mm)

General Specifications:	
Gain	6 dBi
Impedance	50 ohms
VSWR	<1.5:1
Polarization	Vertical
Maximum input power	500 watts (at 50°C)
H-plane beamwidth	Omni
E-plane beamwidth	21 degrees (half-power)
Connector	N female
Radome diameter	1.2–2 inches (30–52 mm)
Wind survival rating*	90 mph (150 kph)
Shipping weight	27 lb (12.2 kg)
Mounting	Mounting hardware supplied.
	A. Mounting for 2.6 to 4.125 inch (65 to 105 mm) OD mast.
	B. Mounting for 1.2 to 3.5 inch (30 to 90 mm) OD mast.



H-plane
Horizontal pattern – V-polarization



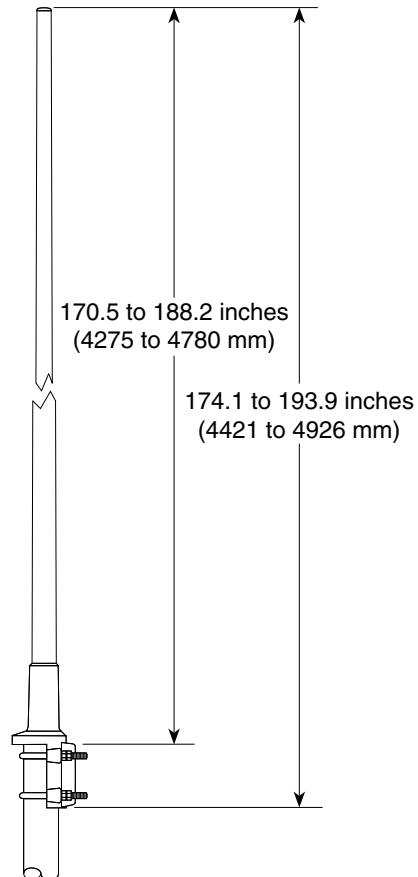
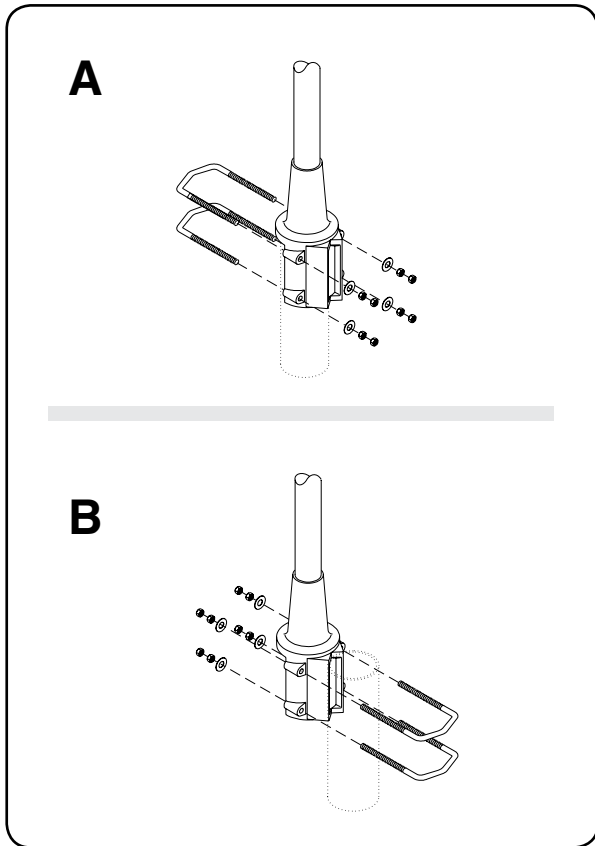
E-plane
Vertical pattern – V-polarization



* 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.

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Mounting Options:

	Description
A	Mounting for 2.6 to 4.125 inch (65 to 105 mm) OD mast
B	Mounting for 1.2 to 3.5 inch (30 to 90 mm) OD mast

Order Information:

Model	Description
K5516211	146–155 MHz Omni Antenna with N connector
K5516221	155–164 MHz Omni Antenna with N connector
K5516231	164–174 MHz Omni Antenna with N connector

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