

Omnidirectional Antenna

These Kathrein omnidirectional broadband antennas are intended for use in professional fixed-station applications in the 370 to 470 MHz bands. They feature:

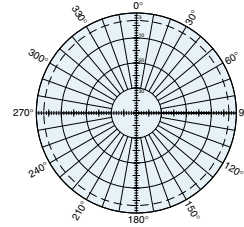
- Unity gain.
- Broadband design.
- Copper and brass radiator assembly completely housed within the radome.
- Heavy-duty one-piece fiberglass radome.
- Inner conductor and all metal parts at DC ground potential.
- Extreme weather survival design.
- Integral cast aluminum base.
- Stainless steel hardware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

Specifications:

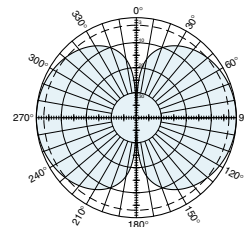
Frequency range	
737 003	370–430 MHz
K751121	406–470 MHz
Gain	2 dBi
Impedance	50 ohms
Intermodulation (2x5w)	IM3:< -150 dBc
VSWR	< 1.5:1
Polarization	Vertical
Maximum input power	100 watts (at 50°C)
H-plane beamwidth	Omni
E-plane beamwidth	78 degrees
Connector	N female
Weight	2.2 lb (1 kg) max.
Height	21.7 inches (552 mm) max.
Radome diameter	0.83 inches (21 mm) max.
Equivalent flat plate area	0.194 ft ² (0.018 m ²) max.
Wind survival rating*	120 mph (200 kph)
Shipping dimensions	25.7 x 4.4 x 3.8 inches (654 x 112 x 97 mm)
Shipping weight	4.4 lb (2 kg)
Mounting	For masts of 0.8 to 2.1 inch (20 to 54 mm) OD.

See order information on reverse.

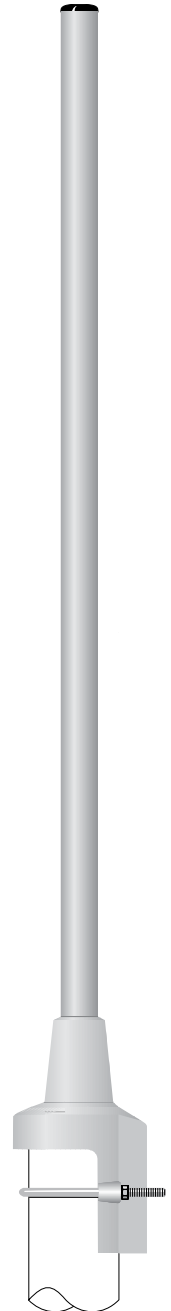
* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



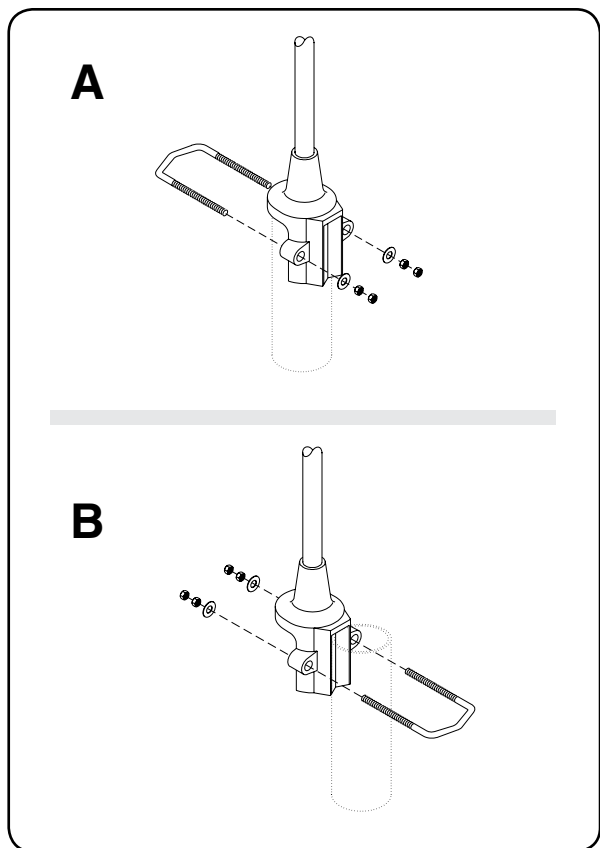
H-plane
Horizontal pattern – V-polarization



E-plane
Vertical pattern – V-polarization



10099-F
936.037/d



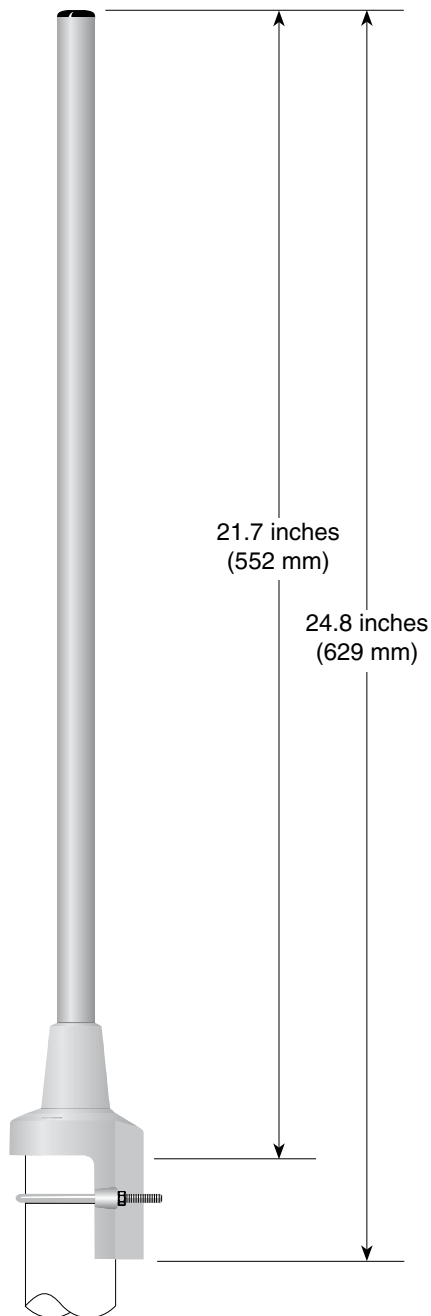
Mounting Options:

737 003
K751121

	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

UBO-470N

	Description
A	Mounting for 1.9 to 2.375 inch (48 to 60mm) OD mast
B	Mounting for 1.0 to 1.9 inch (25 to 48mm) OD mast



Order Information:

Model	Description
737 003	370–430 MHz Omni antenna with N connector
K751121	406–470 MHz Omni antenna with N connector