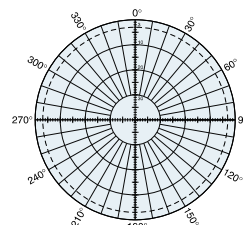


The Kathrein 728 889 omnidirectional broadband antenna is intended for use in professional fixed-station applications in the 406–430 MHz band. It features:

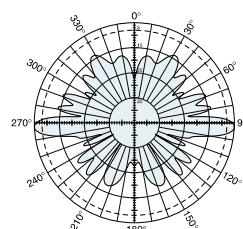
- Collinear broadband design.
- Brass radiator completely housed within radome.
- Heavy-duty one-piece tapered fiberglass radome.
- Inner conductor, and all metal parts at DC ground potential.
- Extreme weather survival design.
- Integral cast aluminum base.
- Stainless steel hardware and fastenings.

**Specifications:**

Frequency range	406–430 MHz
Gain	10 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	8 degrees (half-power)
Connector	7/16 DIN female
Electrical downtilt	See chart below
Weight	15.4 lb (7 kg)
Height	174.4 inches (4430 mm)
Radome diameter	1.2 to 2 inches (30 to 52 mm) (tapered)
Equivalent flat plate area	2.3 ft <sup>2</sup> (0.214 m <sup>2</sup> )
Wind survival rating*	90 mph (150 kph)
Shipping dimensions	181.1 x 7.8 x 6 inches (4600 x 198 x 152 mm)
Shipping weight	24 lb (10.9 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.



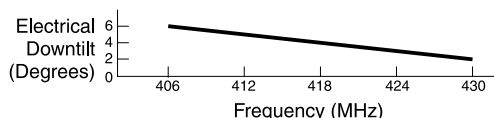
H-plane  
Horizontal pattern – V-polarization



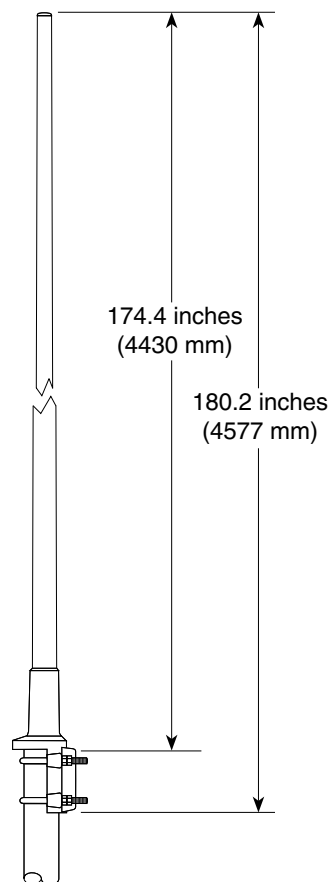
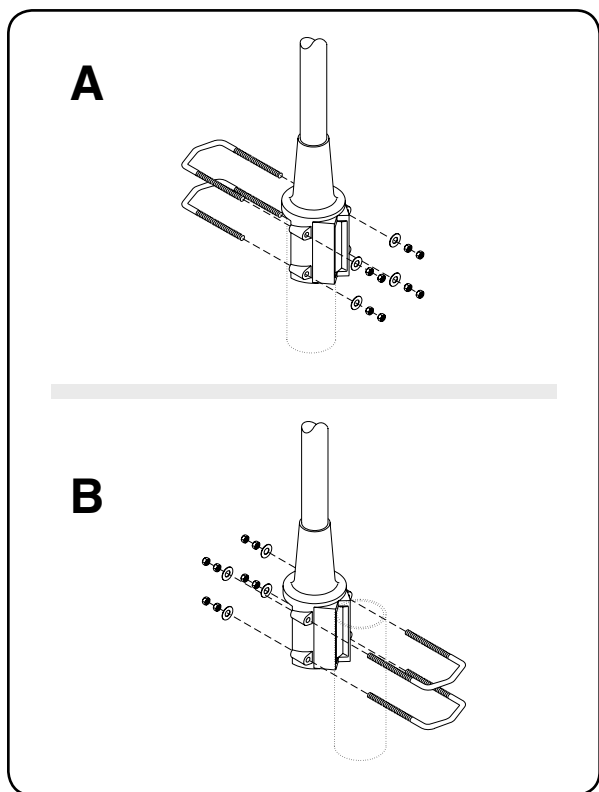
E-plane  
Vertical pattern – V-polarization



\* Mechanical design is based on environmental conditions as stipulated in 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.



10789-B  
936408/d



**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
728 889	Antenna with 7/16 DIN connector

All specifications are subject to change without notice. The latest specifications are available at [www.kathrein-scala.com](http://www.kathrein-scala.com).

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