

Omnidirectional Antenna

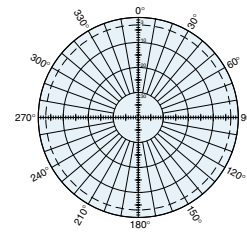
These Kathrein omnidirectional broadband antennas are intended for use in professional fixed-station applications in the 370 to 470 MHz bands. They feature:

- 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.

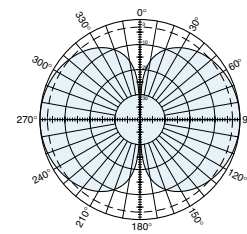
Specifications:	737 003	K751121
Frequency range	370–430 MHz	406–470 MHz
Gain	2 dBi	2 dBi
Impedance	50 ohms	50 ohms
Intermodulation (2x5w)	M3:< -150 dBc	M3:< -150 dBc
VSWR	< 1.6:1 (370–380 MHz) < 1.5:1 (380–430 MHz)	< 1.5:1
Polarization	Vertical	Vertical
Maximum input power	100 watts (at 50°C)	100 watts (at 50°C)
H-plane beamwidth	Omni	Omni
E-plane beamwidth	78 degrees	78 degrees
Connector	N female	N female
Weight	2.2 lb (1 kg)	1.8 lb (0.8 kg)
Height	21.9 inches (555 mm)	20.3 inches (515 mm)
Radome diameter	0.83 inches (21 mm)	0.83 inches (21 mm)
Wind load	at 93 mph (150kph) 5 lbf / 20 N	at 93 mph (150kph) 5 lbf / 20 N
Wind survival rating*	120 mph (200 kph)	120 mph (200 kph)
Shipping dimensions	25.7 x 4.4 x 3.8 inches (654 x 112 x 97 mm)	25.7 x 4.4 x 3.8 inches (654 x 112 x 97 mm)
Shipping weight	4.4 lb (2 kg)	4 lb (1.8 kg)
Mounting	For masts of 0.8 to 2.1 inch (20 to 54 mm) OD.	For masts of 0.8 to 2.1 inch (20 to 54 mm) OD.

See order information on reverse.

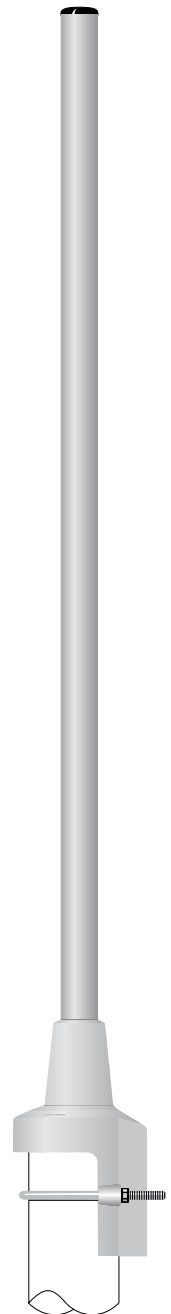
* Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



H-plane
Horizontal pattern – V-polarization



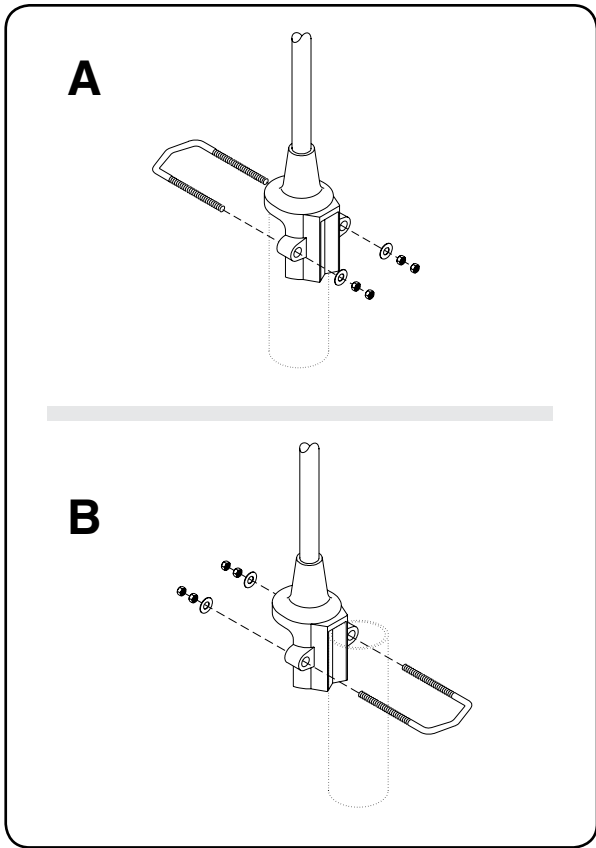
E-plane
Vertical pattern – V-polarization



10099-H
936.037/F

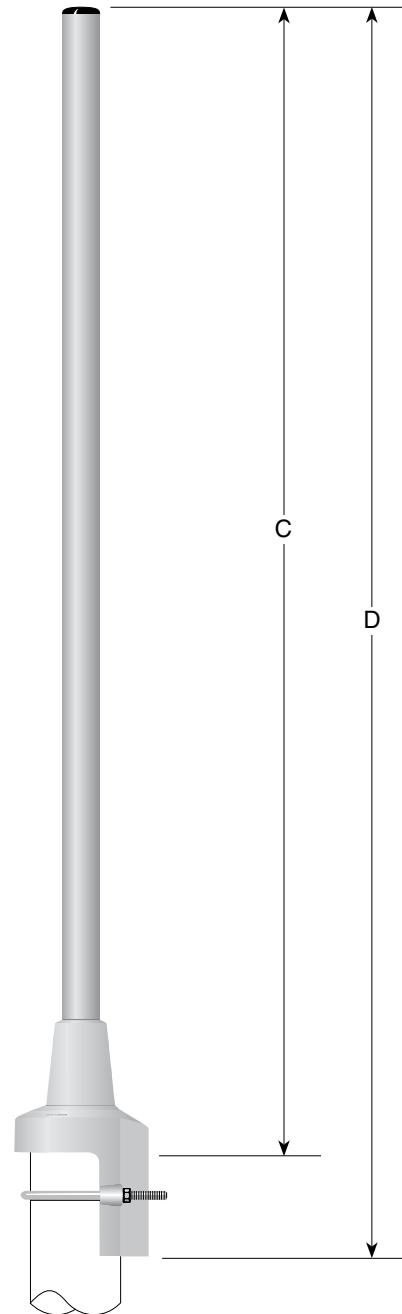


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Mounting Options:

	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



	737 003	K751121
C	21.9 inches (555 mm)	20.3 inches (515 mm)
D	24.8 inches (629 mm)	23.2 inches (589 mm)

Order Information:

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

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