

Radome Protected Yagi Antenna
406–512 MHz

The Kathrein K722241 and K722247 broadband log-periodic antennas are intended for use in professional fixed-station applications in the 406–512 MHz band. They feature:

- Entire antenna enclosed in impact-resistant fiberglass radome.
- Protection from icing, saltwater, and corrosive atmospheres.
- Well suited for use in arrays for special requirements.
- High front-to-back and front-to-side ratios without minor lobes.

Specifications:

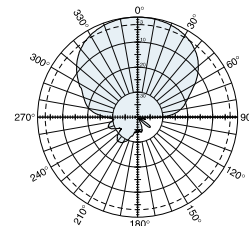
Frequency range	406–512 MHz
Gain	10.5 dBi
Impedance	50 ohms
VSWR	<1.4:1
Polarization	Horizontal or vertical
Front-to-back ratio	>30 dB
Maximum input power	300 watts (at 50°C)
H-plane beamwidth	67 degrees (half-power)
E-plane beamwidth	53 degrees (half-power)
Side-lobe suppression	
406–440 MHz	>20 dB
440–512 MHz	>25 dB
Connector	N or 7/16 DIN female
Weight	19.8 lb (9 kg)
Dimensions	45.4 x 13.9 x 7.1 inches (1153 x 353 x 180 mm)
Equivalent flat plate area	4.23 ft ² (0.393 m ²)
Wind survival rating*	110 mph (180 kph)
Shipping dimensions	46.1 x 14.6 x 8.9 inches (1172 x 372 x 225 mm)
Shipping weight	25.4 lb (11.5 kg)
Mounting	For masts of 1.9 to 4.5 inches (48 to 115 mm) OD.

See reverse for order information.

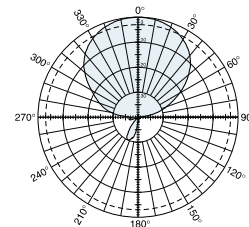
* Mechanical design is based on environmental conditions as stipulated in EIA-222-F (June 1996) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.



(Shown vertically polarized)



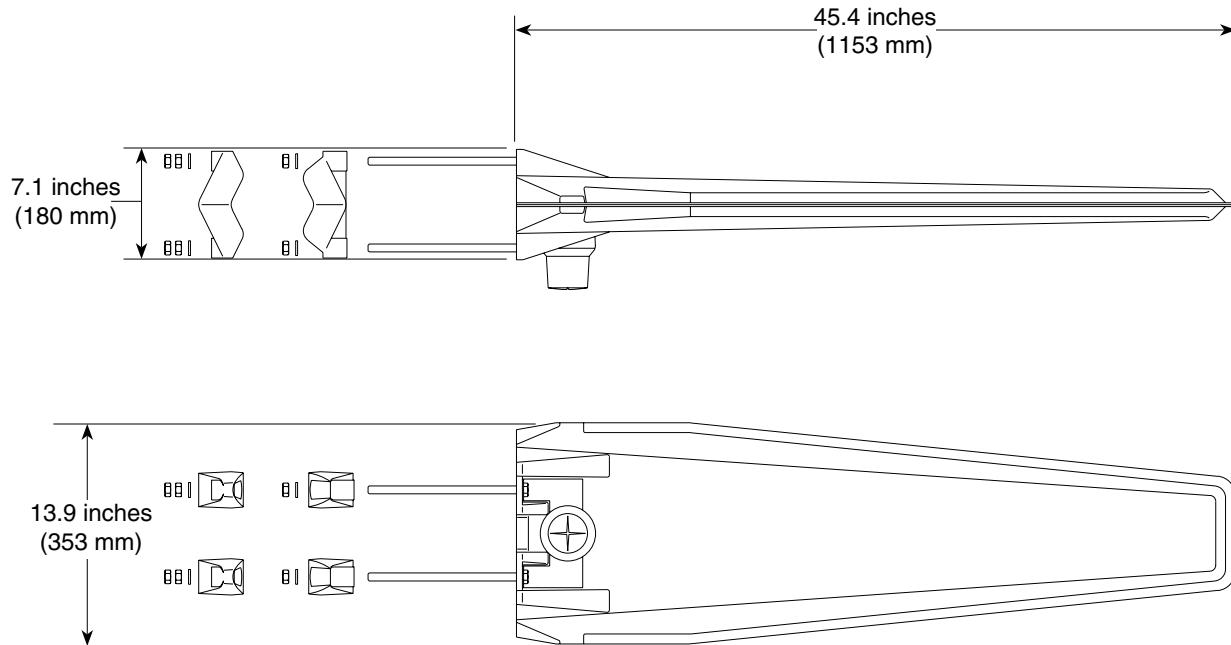
H-plane
Horizontal pattern – V-polarization
Vertical pattern – H-polarization



E-plane
Horizontal pattern – H-polarization
Vertical pattern – V-polarization



10242-D
936.2829/a



(Shown vertically polarized)

Order Information:

Model	Description
K722241	Radome protected yagi antenna with N connector
K722247	Radome protected yagi antenna with 7/16 DIN connector

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