

YA7-155, YA7-166 Yagi Antennas

KATHREIN

The KUSA YA7-155 and YA7-166 are ruggedly built, broadband, folded dipole yagi antennas, designed for control station, point-to-point, and SCADA applications.

Like all KUSA antennas, the YA7-155 and YA7-166 are made of the finest materials using state of the art electrical and mechanical designs resulting in superior performance and long service life.

The YA7-155 and YA7-166 are anodized and may be used stand alone or in stacked arrays for higher gain, increased side-lobe suppression, or custom azimuth patterns.



Specifications

Frequency range

YA7-155	150—164 MHz
YA7-166	160—174 MHz

Gain 9 dBi

Impedance 50 ohms

VSWR <1.35:1

Polarization Horizontal or vertical

Front-to-back ratio 13 dB

Maximum input power 250 watts

H-plane beamwidth 80 degrees (half-power)

E-plane beamwidth 58 degrees (half-power)

Connector N female

Weight 10 lb (4.5 kg)

Dimensions

YA7-155	55 x 38.8 x 5 inches (1397 x 986 x 127 mm)
YA7-166	52.4 x 36.4 x 5 inches (1331 x 925 x 127 mm)

Wind load at 100 mph (161 kph)

Front 40 lbf (178 N)

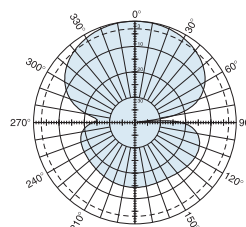
Wind survival rating* 100 mph (161 kph)

Shipping dimensions

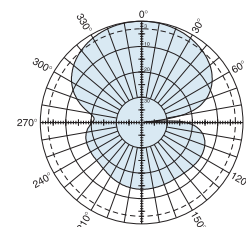
YA7-155	57 x 13 x 8 inches (1448 x 330 x 203 mm)
YA7-166	54 x 13 x 8 inches (1372 x 330 x 203 mm)

Shipping weight 15.0 lb (6.8 kg)

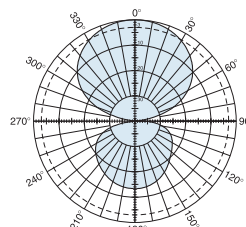
Mounting For masts of 2.375 inch (60 mm) OD.



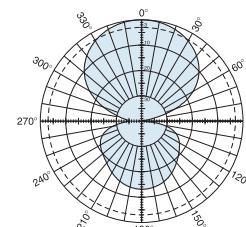
YA7-155 H-plane
Horizontal pattern — V-polarization
Vertical pattern — H-polarization



YA7-166 H-plane
Horizontal pattern — V-polarization
Vertical pattern — H-polarization



YA7-155 E-plane
Horizontal pattern — H-polarization
Vertical pattern — V-polarization



YA7-166 E-plane
Horizontal pattern — H-polarization
Vertical pattern — V-polarization

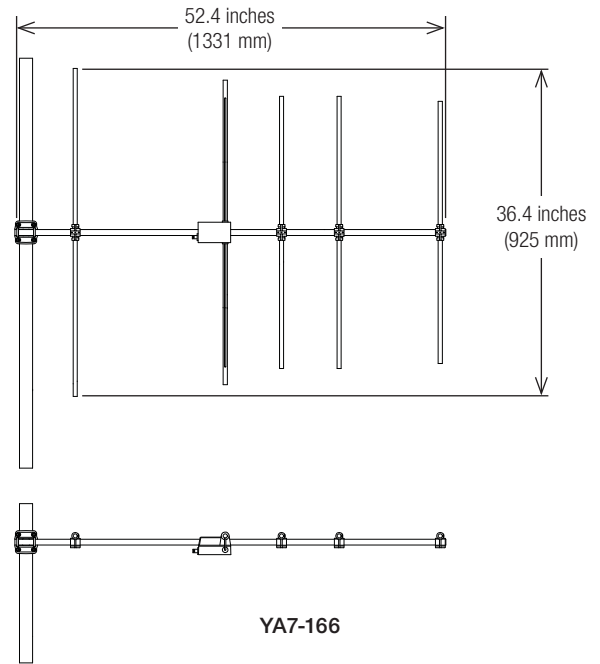
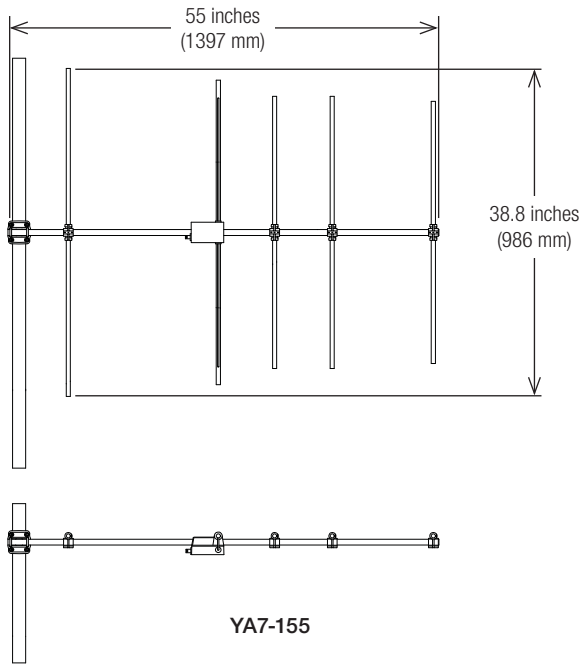
*Mechanical design is based on environmental conditions as stipulated in TIA-222-G-2 (December 2009) and/or ETS 300 019-1-4 which include the static mechanical load imposed on an antenna by wind at maximum velocity. See the Engineering Section of the catalog for further details.

10754d subject to alteration



All specifications are subject to change without notice.
The latest specifications are available at www.kathreinusa.com

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Order information

Model	Description
YA7-155	150–164 MHz antenna
YA7-166	160–174 MHz antenna

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