

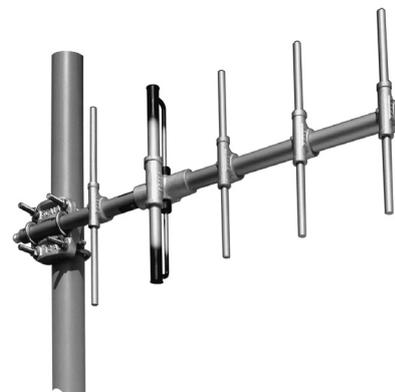
# CA5-400

## YAGI ANTENNA

### 400 to 512 MHz

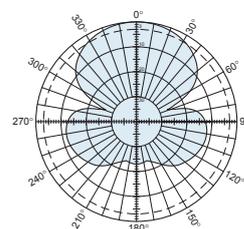
The KUSA CA5-400 five-element yagi antenna is intended for use in professional fixed-station applications in the 400–512 MHz band. It features:

- Balanced feed system with no capacitors for superior performance in icing conditions.
- Internal balun and dipole feedpoint sealed within the boom assembly.
- Anodized aluminum construction.
- Heavy cast aluminum and stainless steel hardware.
- Entire antenna at DC ground potential.
- Dual and quad arrays available.

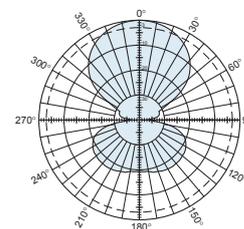


(Shown vertically polarized)

| Specifications                 |                                                          |
|--------------------------------|----------------------------------------------------------|
| Frequency range                | 400–512 MHz (in 6 MHz segments)                          |
| Gain                           | 12 dBi                                                   |
| Impedance                      | 50 ohms                                                  |
| VSWR                           | <1.3:1 ±1 MHz <1.5:1 ±3 MHz                              |
| Polarization                   | Horizontal or vertical                                   |
| Front-to-back ratio            | >20 dB                                                   |
| Maximum input power            | 250 watts (at 50°C)                                      |
| H-plane beamwidth              | 64 degrees (half-power)                                  |
| E-plane beamwidth              | 48 degrees (half-power)                                  |
| Connector                      | N female                                                 |
| Weight                         | 4 lb (1.82 kg)                                           |
| Dimensions                     | 31.5 x 14.3 x 4 inches (maximum)<br>(800 x 364 x 102 mm) |
| Wind load at 100 mph (161 kph) |                                                          |
| Front                          | 13 lbf (58 N)                                            |
| Wind survival rating*          | 200 mph (322 kph)                                        |
| Shipping dimensions            | 41 x 15 x 6 inches (maximum)<br>(1041 x 381 x 152 mm)    |
| Shipping weight                | 7 lb (3.18 kg)                                           |
| Mounting                       | For masts of 2.375 inches (60mm) OD.                     |



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



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. Contact KUSA for further details.

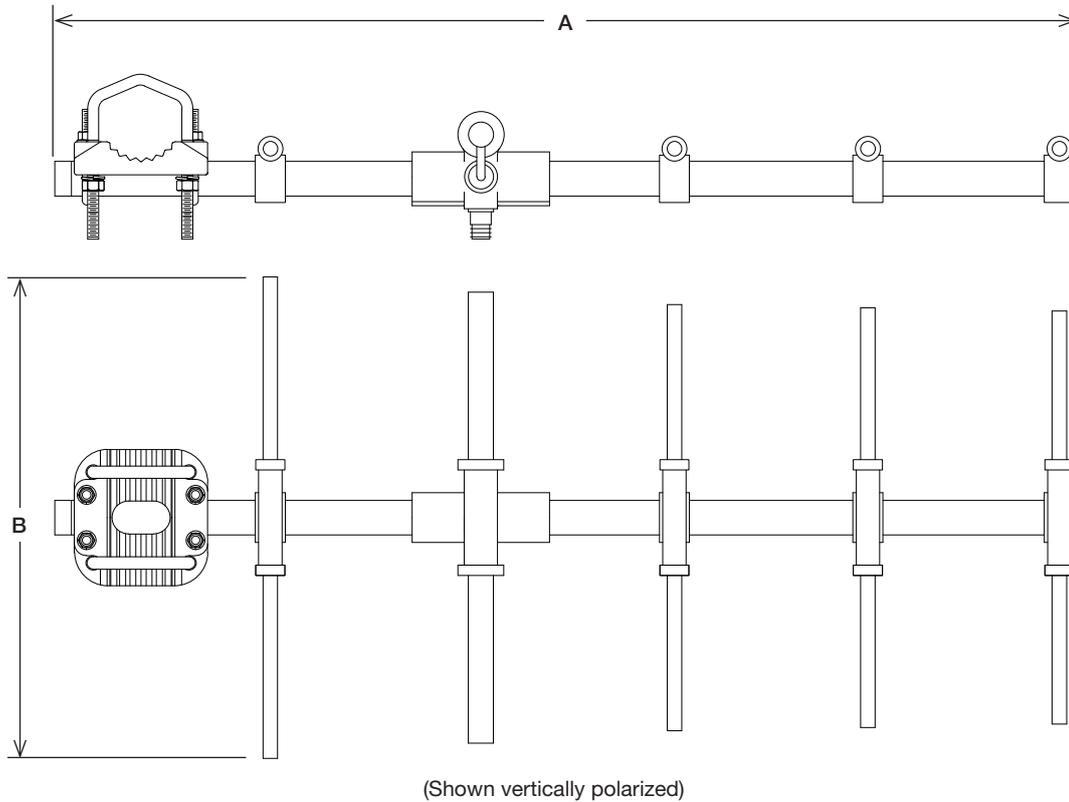
10243d subject to alteration



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

**CA5-400**  
**YAGI ANTENNA**  
 400 to 512 MHz

**KATHREIN**



(Shown vertically polarized)

| Dimensions |         | A                    | B                    |
|------------|---------|----------------------|----------------------|
| Frequency  | 410 MHz | 31.3 inches (795 mm) | 14.1 inches (358 mm) |
|            | 460 MHz | 28.6 inches (727 mm) | 13.3 inches (338 mm) |
|            | 490 MHz | 27.9 inches (709 mm) | 11.4 inches (290 mm) |

**Order information**

| Model   | Description                       |
|---------|-----------------------------------|
| CA5-400 | Horizontal or vertical rear-mount |

10243d subject to alteration