

# 21-HA0F-Y-7

# VHF YAGI ANTENNA



**Frequency:** 136-174MHz

**Gain:** 7dBi

**IM3:** N/A

**Power Rating:**100W

**IP Rating:** IP65

**Connector:** N Female

## OVERVIEW

BRIDGE YAGI ANTENNAS are compatible with any Cellular, IoT, TETRA, WIFI, VHF and UHF network system.

The antennas are designed for highly directional narrow site applications. Custom working frequencies, connectors, beam degree angles and gains are available. Rugged materials are used in the manufacturing process which allows the antennas to have a long working life and consistent performance.

## KEY FEATURES

- N, Din 4.3-10 connectors, available upon request
- Optional qualified PIM performance
- Supports Wide-band working frequency ranges
- Supplied with mounting bracket
- Easy to install

### Product Pictures



### Radiation Diagrams

Horizontal plane pattern

Vertical plane pattern

## TECHNICAL DATA

### Electrical Specifications

|                       |                                     |
|-----------------------|-------------------------------------|
| Frequency Range (MHz) | 136-174                             |
| Gain                  | 7dBi                                |
| VSWR                  | Typical $\leq 1.5$ /Max. $\leq 1.8$ |
| Polarization          | Omni                                |
| Beamwidth- H          | $< 40^\circ$                        |
| Beamwidth- V          | $< 36^\circ$                        |
| Power Rating          | 100W                                |
| PIM : IM3             | N/A                                 |
| Impedance             | 50 $\Omega$                         |

### Mechanical Specifications

|               |              |
|---------------|--------------|
| Connectors    | N Female     |
| Feeder System | Jumper Cable |
| Dimensions    | 700mm        |
| Weight        | 0.5kg        |
| Color         | Light Gray   |
| Material      | Aluminum     |

### Environmental Specifications

|                      |  |
|----------------------|--|
| Wind Load            | 160m/s                                     |
| Temperature          | $-40^\circ\text{C} \sim +70^\circ\text{C}$ |
| Humidity             | $\leq 95\%$                                |
| IP Rating            | IP65                                       |
| Lightning Protection | DC Ground                                  |

### Installation Specifications

|                        |                        |
|------------------------|------------------------|
| Installation Method    | Pole                   |
| Mounting Pole Diameter | $\phi 35 \sim \phi 50$ |
| Accessories            | U-bolt, washers, nuts  |