

# Log Periodic Antenna

## Features

- Maximum broadcast coverage at close range
- Symmetrical broadcast pattern
- Rugged design
- Weatherproof enclosure
- UV-tolerant and corrosion-resistant construction
- Mounting versatility



The Log Periodic Antenna broadcasts and receives radio frequency (RF) signals in the 845 to 950 MHz band. The AA3140 PCB Log Periodic Antenna is a compact, low gain, wide beam-width antenna ideal for installations requiring maximum coverage at close range of 20 feet.

For installation requiring a relatively symmetrical, three-dimensional reading area, the AA3140 PCB Log Periodic Antenna offers a broadcast pattern of similar configuration and dimension in both the horizontal 90° and vertical 60° planes.

A low-profile weatherproof radome provides protection from harsh environmental conditions, including snow, ice, and strong winds. The coated outer surface of the radome has favorable electrical characteristics and high resistance to ultraviolet (UV) radiation. All aluminum materials are anodized for maximum reliability and corrosion resistance. Hardware and fastenings are stainless steel.

The AA3140 antenna's heavy aluminum mounting casting allows installation for vertical or horizontal polarization.

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## COMMUNICATIONS

**Frequency Range**  
845 to 950 MHz

**Gain**  
6 dBd

**VSWR**

1.5:1

**Half-Power Beam Width**  
60° E-Plane and 90° H-Plane

**HARDWARE FEATURES**  
**Connector**  
Type N female

**PHYSICAL**

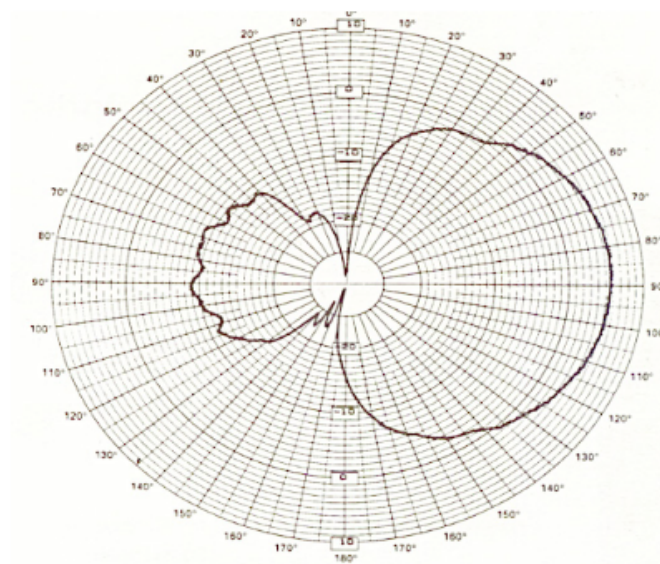
## Dimensions

Size: 10.5 x 2.5 x 10.5 in. (26.7 x 6.4 x 26.7 cm)  
Weight: 2.5 lb (1.12 kg)

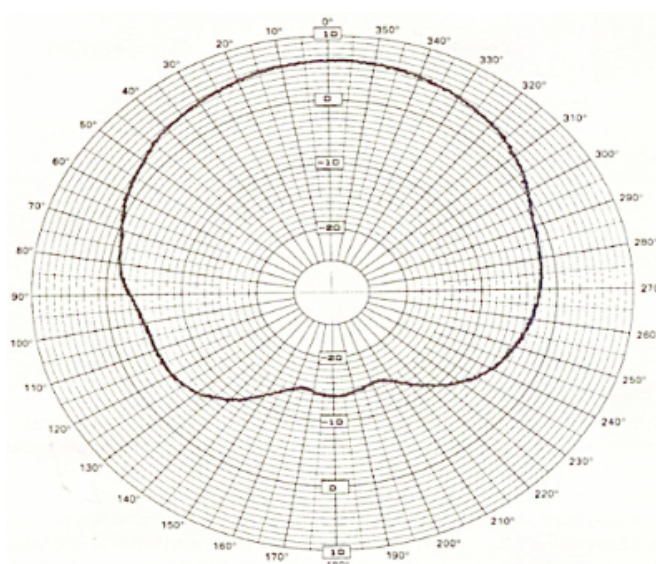
**Mounting Method**  
Clamp included

**Enclosure**  
Weatherproof radome

## Radiation Pattern



**Vertical Plane Pattern (vertical polarization)**



**Horizontal Plane Pattern (vertical polarization)**

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