



reliable, durable, customizable, affordable

[ broadcast antenna systems ]

# MODEL **PSIVL5CLOG**

## 5 ELEMENT LOG PERIODIC LOW BAND VHF ANTENNA

HIGH POWER | CIRCULAR POLARIZATION

### Electrical Specifications

Frequency: 54 - 88 MHz

Gain: 3.55 (5.50 dBd) (each polarization)

VSWR: < 1.1:1 (on channel)

Impedance: 50 ohms

Polarization: Circular

HPBW: E-Plane 72°

H-Plane 110°

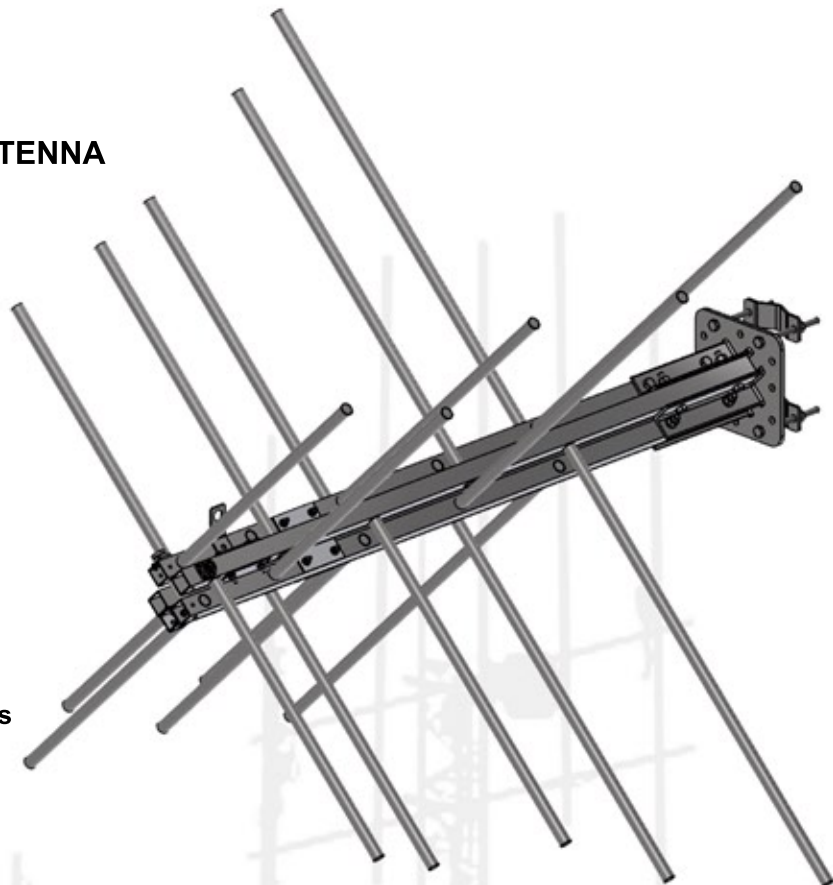
Bandwidth: Single Channel

System arrays up to 2 adjacent channels

Pattern: Directional to 4- around omni directional

Element Input: (2x) 7-16 DIN (7/8" EIA Optional)

Power Rating: (2x) 3kW



### Mechanical Specifications

Physical Characteristics: Galvanized Steel or Treated Aluminum

Mounting: Customizable to available support structure

Vertical Height: 72" - 56" (1829mm - 1422mm) (CH 2 - 6)

Horizontal Width: 72" - 56" (1829mm - 1422mm) (CH 2 - 6)

Length Off Tower: 83" - 60" (2108mm - 1524mm) (CH 2 - 6)

Weight: Steel 121 lbs - 95 lbs (55 kg - 43 kg) (CH 2-6)

Aluminum 70 lbs - 50 lbs (32 kg - 23 kg) (CH 2-6)

Wind Area: 17 ft<sup>2</sup> - 8 ft<sup>2</sup> (1.58 m<sup>2</sup> - .74 m<sup>2</sup>) (CH 2-6)

PSIVL5CLOG antenna model is a narrow lobe, circularly polarized antenna intended for Low Band VHF broadcast applications up to 6 kW of input power. Galvanized steel, brass, and teflon construction with hot dip galvanized mounting bracket make it suitable for any environment. Light weight treated aluminum version is also available.

Standard with the PSIVL5CLOG are both the horizontal and vertical feed cables, an equal split frequency matched power divider and integral mounting bracket that will accommodate a mast from 1-1/2" to 4" in diameter.

This model is also available in arrayed configurations for custom patterns. For multi-element custom arrays, the PSIVL5CLOG includes a multi power divider network, corresponding cables and site specific mounting. Total weight, wind area, gain and power rating are dependent on pattern requirements and configuration.

PSI reserves the right to modify the indicated technical specifications at any time without notice.

© 2026 Propagation Systems, Inc. 719 Pensacola Road, Ebensburg, PA 15931 USA  
phone: +1-814-472-5540 email: sales@psibroadcast.com web: www.psibroadcast.com

FM BROADCAST ANTENNAS