

# AD5900-15™ DATASHEET

## 15dB 5.8GHz Circular Polarized Patch Antenna

- Sturdy flat-panel design.
- Allows one-mile range when used on the Tx and Rx of a FalconPlus system.
- Transmitter and receiver versions available.
- Circular polarized for the best propagation in weather.
- Right-hand and left-hand circular polarizations available.
- Designed for use with FalconPlus™ transmitters and receivers (as shown, sold separately).
- Weatherproof.
- Cables and mounting hardware included.



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## AD5900-15 Electrical Properties

### FREQUENCY RANGE

5725–5875 MHz

### BANDWIDTH

150MHz (VSWR < 2.0:1)

### ELEMENT GAIN

15dBi

### FRONT-TO-BACK RATIO

> 15dB

### AXIAL RATIO

< 3dB across band

### E-PLANE BEAMWIDTH

> 18°

### H-PLANE BEAMWIDTH

> 18°

### POLARIZATION

right-hand circular (-R), left-hand circular (-L)

### IMPEDANCE

50 Ohms nominal

## AD5900-15 Mechanical Properties

### PACKAGE

weatherproof white ABS radome with powder-coated aluminum backplate

### DIMENSIONS

9.5"×8.5"×2.25" with connector

### CONNECTOR

SMA female bulkhead or SMA-RP bulkhead

### CABLE

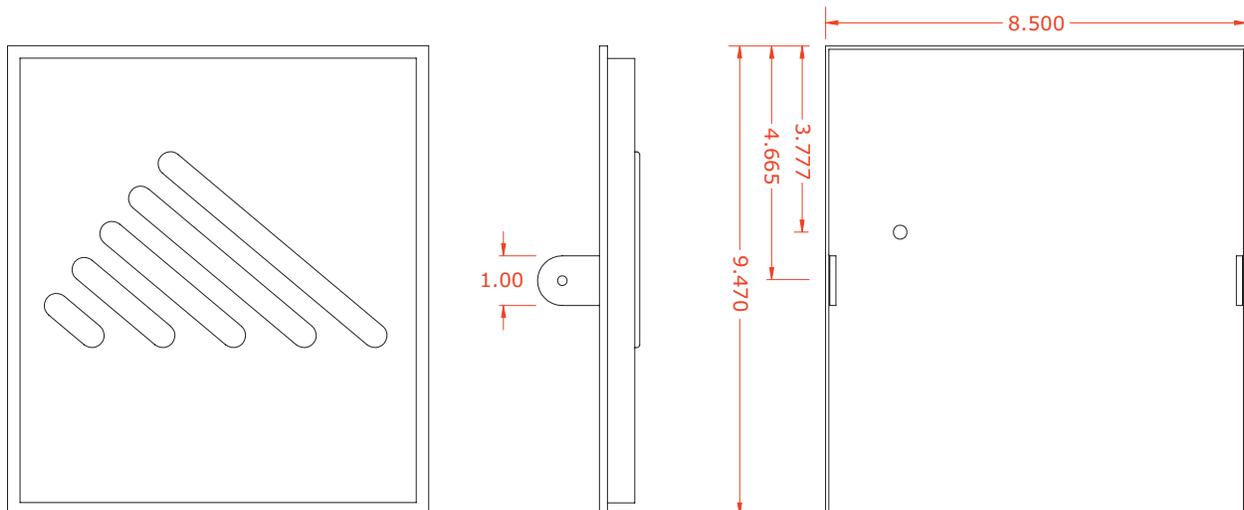
12" RG316DS with SMA-M transmitters

### MOUNTING PROVISIONS

bracket model AMH-001 included for mounting on 2<sup>3</sup>/<sub>8</sub>" diameter mast

## Four models to choose from

PART NUMBER	USED WITH RADIO	POLARIZATION
AD5900-15-RP	VTX5900	right-hand
AD5900-15-LP	VTX5900	left-hand
AD5900-15-R	VRX5900	right-hand
AD5900-15-L	VRX5900	left-hand



*Schematic shown from left to right:  
front view, side view, bottom view.*

