

# 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

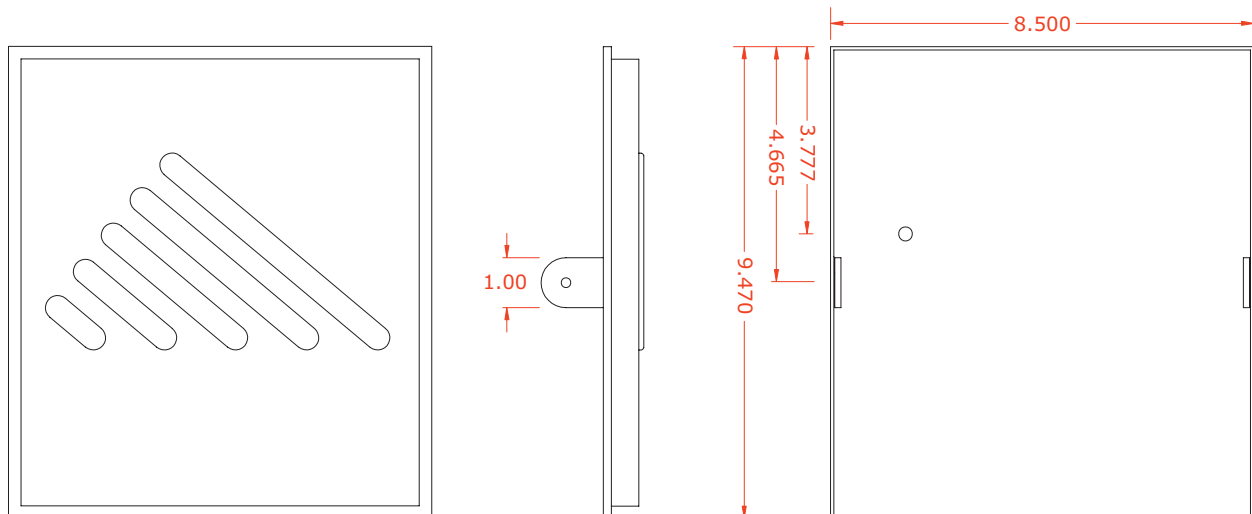
**CONNECTOR**  
SMA female bulkhead or SMA-RP bulkhead

**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.



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