

## **30dB Circular Polarized Dish Antenna 5.725 to 5.875 GHz**

- Sturdy Mounting system - ideal for tower/pole mounting
- Allows a 7-mile range with the FalconPlus™
- Circular polarized for the best propagation in weather
- Includes low-noise amplifier and filter in feedhorn assembly
- Aluminum construction
- Includes cable
- Designed for use with FalconPlus™ VRX5900™ receivers
- Available in right or left hand circular polarization



## AD5900-30-R Electrical Properties Dish Parameters

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### FREQUENCY RANGE

5725–5875 MHz

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### ELEMENT GAIN

>30dBi for passive portion of dish

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### FRONT-TO-BACK RATIO

>30dB

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### E-PLANE BEAMWIDTH

>5°

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### H-PLANE BEAMWIDTH

>5°

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### POLARIZATION

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

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### CROSS-POLARIZATION REJECTION

>15dB

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### BANDWIDTH

150 MHz (VSWR < 2.0:1)

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## LNA/Filter Parameters

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### CASCADE GAIN

>6.5dB

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### INPUT COMPRESSION POINT

> -10dBm

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### VSWR

> 2:1 typical across bandwidth

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### POWER REQUIREMENT

6-12VDC, provided on center conductor at 25mA  
(provided by VRX5900)

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## AD5900-30-R Mechanical Properties

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### PACKAGE

Feed: white ABS weatherproof construction  
Dish: 3003-0, 050" thick aluminum with off-white  
paint

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### DIMENSIONS

36" diameter by 15" deep with feed attached

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### CONNECTOR

SMA female bulkhead

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### CABLE

38" SMA-M to SMA-M double-braided RGS142

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### MOUNTING PROVISIONS

Azimuth-Elevation mounting hardware for 2 3/8"  
diameter steel pole

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### WIND LOADING

Wind force at 100 mph: 340 lbs. at 60° angle

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### WEIGHT

5 lbs.

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