

27dB Circular Polarized Dish Antenna 5.725 to 5.875 GHz

- Sturdy Mounting system - ideal for tower/pole mounting
- Allows a 4-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



AD5900-27-R Electrical Properties Dish Parameters

FREQUENCY RANGE

5725-5875 MHz

ELEMENT GAIN

> 27 dBiC

FRONT-TO-BACK RATIO

> 25 dB

E-PLANE BEAMWIDTH

7° typical

H-PLANE BEAMWIDTH

7° typical

POLARIZATION

Right-hand circular (-R), Left-hand circular (-L)

CROSS-POLARIZATION REJECTION

> 15 dB

AXIAL RATIO

< 5 dB

BANDWIDTH

150 MHz (VSWR < 1.5:1)

LNA/Filter Parameters

SUPPLY VOLTAGE

6-12 VDC on cable center conductor (provided by VRX5900)

CURRENT CONSUMPTION

< 40 mA

INPUT COMPRESSION POINT

> -10 dBm at 5.8 GHz

CASCADE NOISE FIGURE

< 2.5 dB

CASCADE GAIN

> 6.5 dB

AD5900-27-R Mechanical Properties

PACKAGE

Feed: White ABS weatherproof construction
Dish: 3003-0 0.050" thick aluminum with off-white paint

ASSEMBLED DIMENSIONS

24" Diameter by 15" Deep with feed attached

CONNECTOR

SMA female bulkhead

CABLE

32" SMA-M to SMA-M double-braided RGS142 cable

WEIGHT

17 lbs

MOUNTING PROVISIONS

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

WIND LOADING

Wind force at 100 mph: 183.69 lbs at straight-on (90° angle) wind direction

