

ANT5900-31 DATASHEET

31dB Circular Polarized Dish Antenna

5.725 to 5.875 GHz

- Ideal for ISM and UNI band applications
- Circular polarized for the best propagation in weather
- Includes low-noise amplifier and filter in feedhorn assembly
- Solid steel construction
- Includes cable and basic hardware for pole-mounting



ANT5900-31 DATASHEET

AD5900-31-R/L Electrical Properties Dish Parameters

FREQUENCY RANGE

5725–5875 MHz

ELEMENT GAIN

> 31dBi for passive portion of dish

FRONT-TO-BACK RATIO

> 35dB

E-PLANE BEAMWIDTH

> 4°

H-PLANE BEAMWIDTH

> 4°

POLARIZATION

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

CROSS-POLARIZATION REJECTION

> 15dB

AXIAL RATIO

< 5dB

BANDWIDTH

150MHz (VSWR < 2.0:1)

APERTURE EFFICIENCY

> 69%

LNA/Filter Parameters

CASCADE GAIN

> 9dB

IMAGE REJECTION

> 50dB

P1 DB

> -10dBm

VSWR

< 2:1 typical across bandwidth

POWER REQUIREMENT

4–12VDC, 5V typical on cable center conductor at 25mA (provided by VRX5900)

AD5900-31-R/L Mechanical Properties

PACKAGE

All-steel reflector with grey powdercoat; white weatherproof ABS/powdercoat steel feedhorn

DIMENSIONS

36"x39"x2.15" with connector

CONNECTOR

SMA female connector on LNA/Filter

CABLE

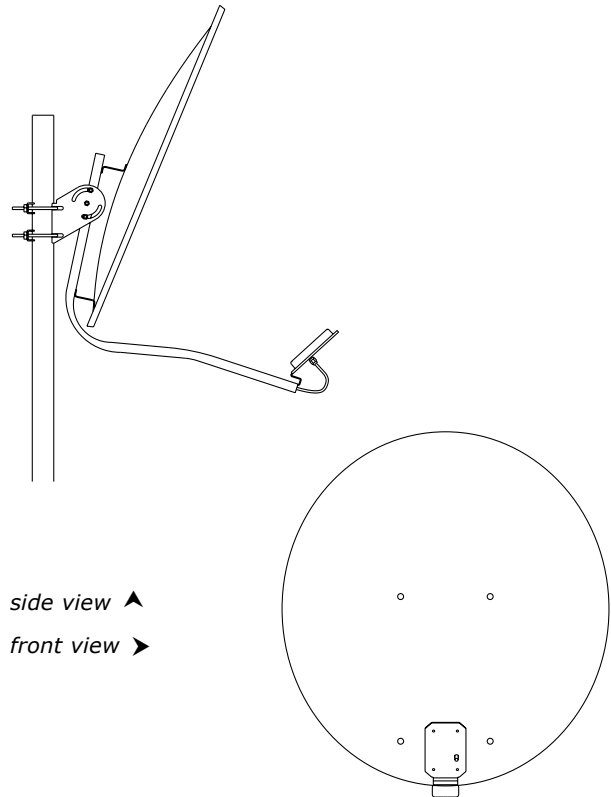
32" SMA-M to SMA-M double-braided RGS142

MOUNTING PROVISIONS

1.66" to 2.5" diameter pole mount, U-bolts provided

WIND LOADING

100 mph no damage



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