

2A20SS/7A30SS

Solid-State Feed Transmit Antenna



Applications

- Electronic News Gathering

Features

- Gain: 20 dBi @ 2 GHz, 30 dB @ 7 GHz
- RF switching performed through the latest advancements in solid-state technology—no electro-mechanical switches
- High reliability, lower cost of ownership, less down time than electro-mechanical switch designs
- Smaller, lighter weight feed design
- Dramatically lower DC operating power
- Quad polarization standard
- Excellent front-to-back and sidelobe performance
- Low-profile, offset-fed design
- High degree of integration through the use of custom integrated modules

Overview

The 2A20SS/7A30SS is a low-profile, offset-fed antenna that is ideally suited for many broadcast microwave van applications. The reflector is constructed from honeycomb/ fiberglass material that provides extreme ruggedness and light weight.

It is available as a single band antenna covering 1.99 to 2.5 GHz or 6.5/7 GHz bands, or as a multiband antenna system covering both the 2/2.5 GHz and 6.5/7 GHz bands.

The feed design permits choices of linear or circular polarization with standard quad polarization models at 2 GHz, 7 GHz, or 2/7 GHz. A new bracket design interfaces with the Quickset QPT90 pan and tilt head.

SPECIFICATIONS

GENERAL

Antenna Type: Offset Fed Parabola
 Model: 2 GHz; 6.5/7 GHz
 Operating Frequency: 1.99 to 2.5 GHz; 6.4 to 7.4 GHz
 Gain, nominal*: 20 dBi; 30 dBi
 Beamwidth, typical (-3 dB):
 Azimuth: 14.2°; 4.2°
 Elevation: 19.5°; 6.8°
 F/B Ratio: -25 dB min; -22 dB min
 Side Lobe Rejection: -20 dB; -20 dB
 * Gain is for basic antenna, net of switching options
 mechanical characteristics
 Construction: Fiberglass, honeycomb construction
 Reflector: 18" (H) x 30" (W)
 (46 x 76 cm)
 Weight: 15 lbs (6.75 kg)
 Temperature Range: -30°C to +60°C

CONFIGURATIONS

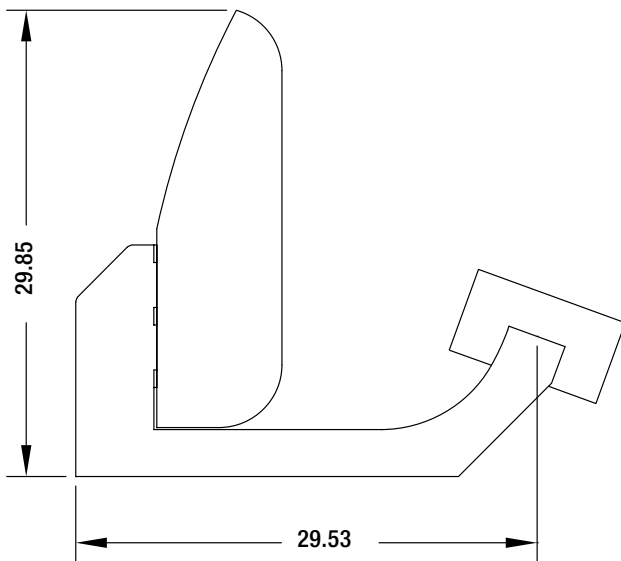
2 GHz Quad Pole
 7 GHz Quad Pole
 2/7 Dual Band Quad Pole, Simultaneous Switching, TX

OPTION

24 Vdc Power Supply with Polarity Switch, Rack Mount

QUICKSET PAN & TILT HEAD OPTIONS

- QuickSet Pan/Tilt, including pots; 115 Vac
- QuickSet Local Controller with AZ/EL
- (no AZ/EL metering) and Variable Speed Control; 230 Vac



2A20SS/7A30SS:
 Side view, Product dimensions in inches

