

Digitally Tuned VHF/UHF **S65-8282-931**



Description

Current state of the art in digitally-tuned antenna technology. This antenna provides high-gain VHF/UHF performance in a low-drag, swept-back design. The antenna provides fast, automatic frequency tuning in the VHF/UHF band by using a solid-state microprocessor technology with switching speeds of less than 50 microseconds and supporting secure frequency-hopping voice communications.

The **S65-8282-931** antenna is tunable from 30 MHz to 512 MHz. The design incorporates a microprocessor-based logic controller and a switching power supply in the base of the antenna assembly. Frequency setting information is transmitted directly to the antenna from the radio via a multi-pin connector. Tuning of the inductor circuits is achieved by the logic controller via PIN diodes.

The **S65-8282-931** antenna is compatible with Rockwell Collins ARC-210, Raytheon ARC-231, and R&S M3AR Series 6000.

Federal & Military Certifications:

MIL-HDBK-5400 and MIL-STD-810.

Specifications

Electrical

Frequency	30; 40; 50, 60, 70, 80, 88, 108-174 and 225-512 MHz
VSWR	30 MHz: 1.5; 40 MHz: 1.4; 50 MHz: 1.5; 60 MHz: 1.4; 70 MHz: 1.6; 80 MHz: 1.4; 88 MHz: 2.2; 108-174 MHz: <2.5; and 225-512 MHz: <2.5
Gain (dBi)	30 MHz: -8; 40 MHz: -7; 50/60/70 MHz: -6; 80/88 MHz: -5, 108-174 MHz: +1 and 225-512 MHz: +2.5

Polarization	Vertical
Pattern	Omnidirectional in Azimuth Cosinusoidal in Elevation

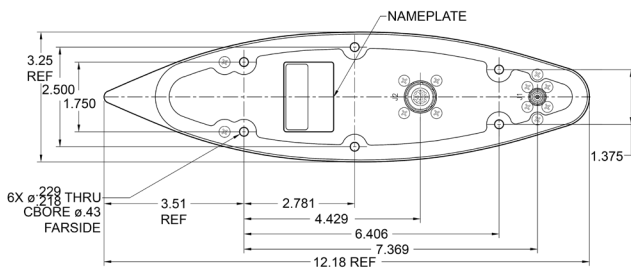
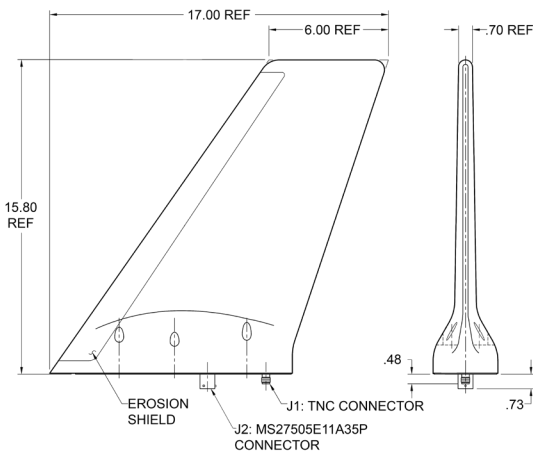
Impedance	50 Ω
Power Handling	23 Watts; 46 Watts from 225-400 MHz
Primary Power	+28 VDC, 0.8 AMP
Switching Speed	< 50 μ S

Mechanical

Weight	4.7 lbs.
Height	15.80 in.
Length	17.00 in.
Width	3.25 in.
Material	6061-T6 Aluminum Alloy Base / Fiberglass
Finish	Skydrol Resistant Polyurethane Enamel
Connector	RF: J1: TNC Female DC: J2: MS27505E11A35P Male

Environmental

Temperature (Operating)	-40°C (-40°F) to +90°C (+194°F)
Altitude	70,000 ft.



Please Note: For REFERENCE ONLY
Contact Sensor Systems for latest drawing



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