

Digitally Tuned VHF/UHF/L-Band **S65-8282-843**



Description

Current state of the art in digitally-tuned antenna technology. This antenna provides high-gain VHF/UHF and L-Band performance. Frequency tuning in the VHF/UHF band is accomplished by using a solid-state microprocessor technology with switching speeds of less than 50 microseconds and supporting secure frequency-hopping voice communications. The antenna offers L-Band operation using an independent radiating element via a separate "N" connector. 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 composite radome of the antenna houses a microprocessor-based logic controller, RF tuning circuitry and DC switching power supply resulting in a single antenna package. The antenna operates on a standard 28 VDC power source.

The antenna can be used as a direct replacement for Cobham, when used with adapter plate **S65-82821065-1**. It is compatible with Rockwell Collins ARC-210, Raytheon ARC-231, and R&S M3AR Series 6000.

Federal & Military Certifications:

DO-160G, MIL-HDBK-5400, MIL-STD-461, and MIL-STD-810.

Specifications

Electrical

Frequency	VHF/UHF: 30; 40; 50; 60; 70; 80; 88; 108-174, and 225-512 MHz L-Band: 700-2700 MHz
VSWR	2.0:1
Gain (dBi)	VHF/UHF: 30 MHz: -10; 40 MHz: -8; 50/60 MHz: -7; 70/80/88 MHz: -6, 108-174 MHz: -1 and 225-512 MHz: -1
Polarization	Vertical
Pattern	Omnidirectional in Azimuth Cosinusoidal in Elevation
Impedance	50 Ω
Power Handling	25 Watts; 46 Watts from 225-400 MHz
Primary Power	+28 VDC, 0.8 AMP
Switching Speed	< 50 μ S

Mechanical

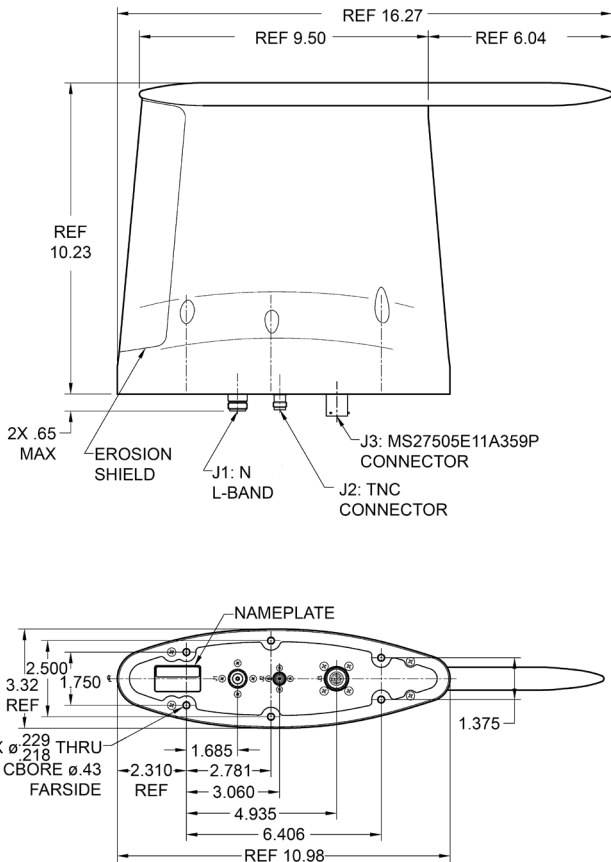
Weight	5.0 lbs.
Material	6061-T6 Aluminum Alloy Base / Fiberglass
Finish	Skydrol Resistant Polyurethane Enamel
Connector	RF: J1 (L-Band): N Female RF: J2 (VHF/UHF): TNC Female DC: J3: MS27505E11A35P Male

Environmental

Temperature (Operating)	-54°C (-65°F) to +71°C (+160°F)
Altitude	50,000 ft.

Accessories

Mounting Screws	MS51958-71
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Please Note: For REFERENCE ONLY
Contact Sensor Systems for latest drawing



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