



### DESCRIPTION

**S65-8282-931:** Representing current state-of-the-art in digitally-tuned antenna technology, the S65-8282-931 provides high-gain VHF/UHF performance in a low-drag, swept-blade design. Fast, automatic frequency tuning is accomplished using advanced microprocessor technology providing switching speeds of less than 50 microseconds, supporting frequency-hopping, secure voice communications systems.

The S65-8282-931 is tunable from 30-512 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 control board via PIN diodes.

The antenna is compatible with Collins ARC-210, Raytheon ARC-231 and Rohde & Schwarz M3AR 6000 radios.

**FEDERAL & MILITARY SPECS:** MIL-HDBK-5400, MIL-STD-810.

### PERFORMANCE

GAIN S65-8282-931							
Freq. (MHz)	30	88	108	174	225	400	512
Gain (Avg.)	-8	-5	+1	+1	+2.5	+2.5	+2.5

SPECIFICATIONS			
MODEL	S65-8282-931		
ELECTRICAL	VHF/FM	VHF/AM	UHF
Frequency	30-88 MHz	108-174 MHz	225-512 MHz
VSWR (Avg.)	1.4:1 to 2.2:1	<2.5:1	<2.5:1
Pattern	Omni/Az, Cos/EI		
Polarization	Vertical		
Impedance	50 ohms		
RF Power	23 watts (225-400 MHz: 46 watts)		
DC Power	+28 VDC, 0.8 Amps		
Switching Speed	< 50 $\mu$ S		
MECHANICAL			
Weight	4.7 lbs.		
Height	15.80 in.		
Width	3.25 in.		
Length	12.18 in.		
Material	6061-T6 Aluminum/fiberglass		
Finish	Skydrol-resistant Polyurethane Enamel		
RF Connector	TNC Female		
DC Connector	MS27505E11A35P		
Drag	2.2 lb. Mach .85 @ 35,000 ft.		
ENVIRONMENTAL			
Side Load	9 psi		
Temperature	-40° F (-40° C) to +194° F (+90° C)		
Vibration	10Gs		
Altitude	70,000 ft.		

