



DESCRIPTION

S65-8282-810: Representing current state-of-the-art in digitally tuned antenna technology, the S65-8282-810 provides high gain VHF/AM/FM/UHF performance.

Tuning of the inductor circuits is controlled by p-i-n diodes from an internal logic control board in the base of the antenna assembly.

Frequency setting information is transmitted directly to the antenna from the transceiver via a multi-pin connector.

All tuning is solid-state with switching speeds that support frequency-hopping secure voice communications systems.

Since the S65-8282-810 is tuned through the 30-400 MHz band, it provides optimized gain for receivers having wide-band tuning requirements.

FEDERAL & MILITARY SPECS: : MIL-E-5400T, MIL-STD-810, RTCA/DO-160.

SPECIFICATIONS

	VHF/FM	VHF/AM	UHF
S65-8282-810			
ELECTRICAL			
Frequency	30-88 MHz	108-174 MHz	225-400 MHz
VSWR	1.5:1	2.0:1	2.0:1
Pattern	Omni/Az	Omni/Az	Omni/Az
	Cos/EI	Cos/EI	Cos/EI
Polarization	Vertical	Vertical	Vertical
Impedance	50 ohms	50 ohms	50 ohms
RF Power	23 w/cont	30 w/cont	30 w/cont
DC Power		+28 VDC, 1 AMP	
Switching Speed		< 100 μS	
Lightning Protection		Gas Discharge Tube	

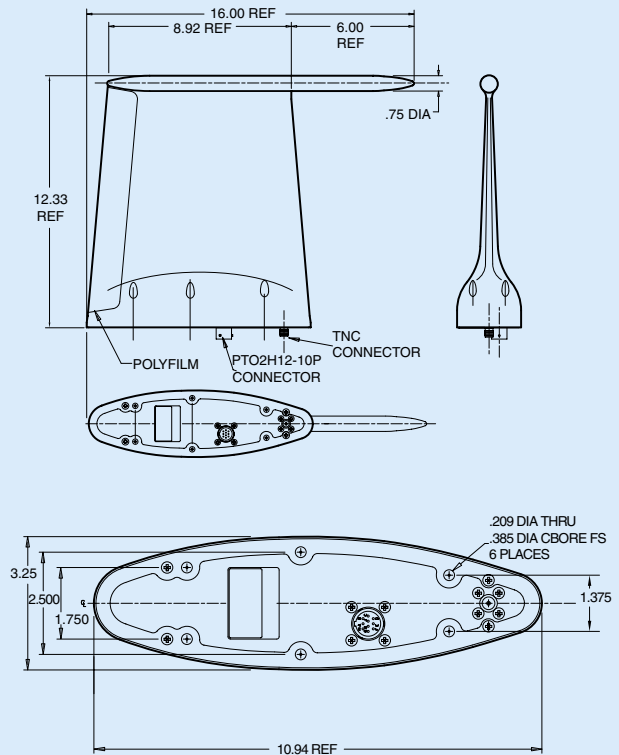
MECHANICAL

Weight	3.5 lbs.
Height	12.35 in.
Width	3.25 in.
Length	10.94 in.
Material	6061-T6 Aluminum/fiberglass
Finish	Skydrol resistant enamel
RF Connector	TNC
Control Connector	PT02H12-10P
Drag	2.9 lb. Mach .85 @ 35,000 ft.

ENVIRONMENTAL

Side Load	9 psi
Temperature	- 40° F to +185° F
Vibration	10G's
Altitude	70,000 ft.

OUTLINE DRAWING



S65-8282-810



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