



C-5000 INSTALLATION MANUAL

Allied Signal
PN 121-016821-01

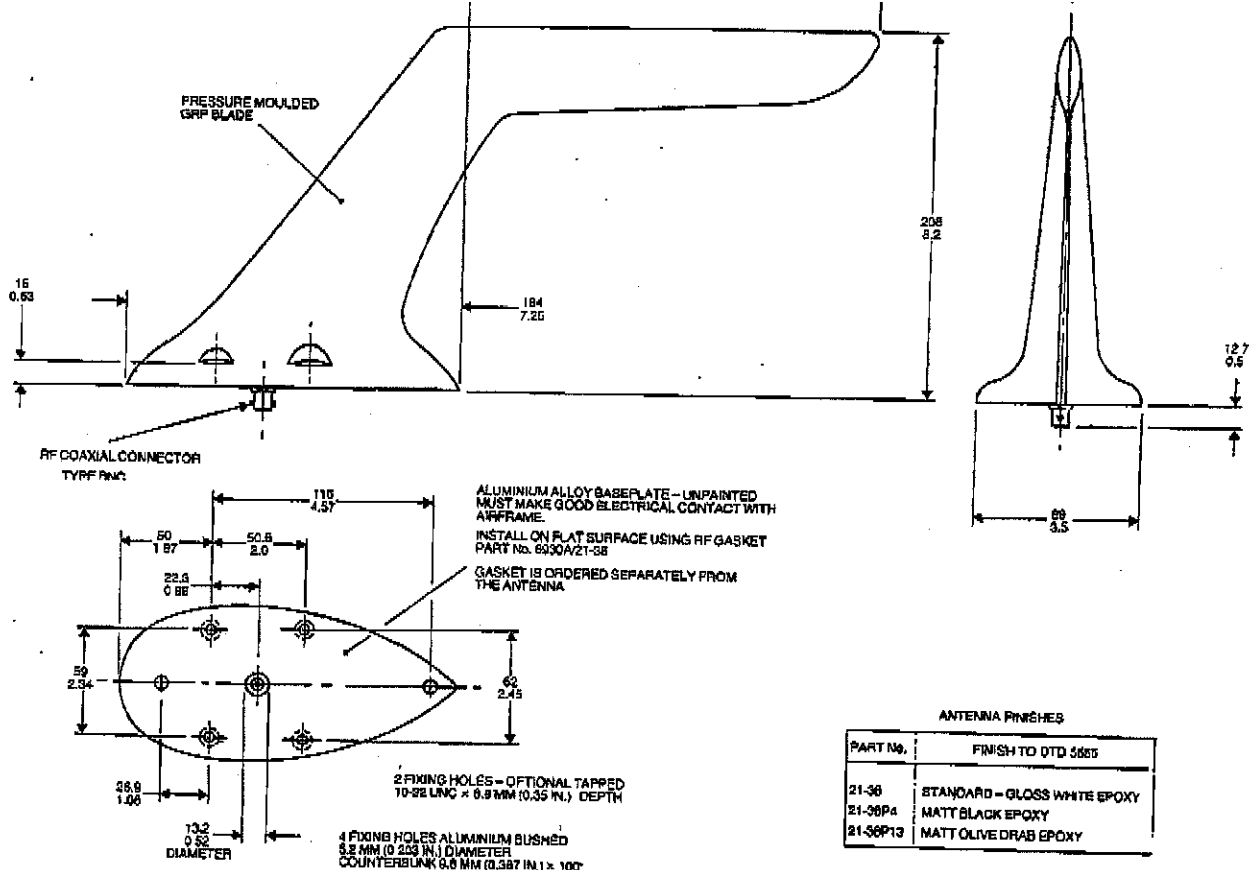
5. Impedance: 50 Ohms
6. Power: 15 Watts
7. Gain: 30 MHz, -14dBi
88 MHz, -7 dBi
108-174 MHz, -3 dBi
225-400 MHz, 0 dB
8. Temperature: -54°C to + 71°C
9. Altitude: 50,000 feet

c. AT-400 Antenna.

1. Frequency: 400 - 960 MHz
2. VSWR: 2.0: 1 maximum
3. Radiation Pattern: Typical of $\lambda/4$ stub
4. Polarization: Vertical
5. Impedance: 50 Ohms
6. RF Power: 100 Watts
7. Efficiency: 90% min. 400 - 960 MHz
8. Gain: (Not available)
9. Temperature: (Not available)
10. Altitude: (Not available)

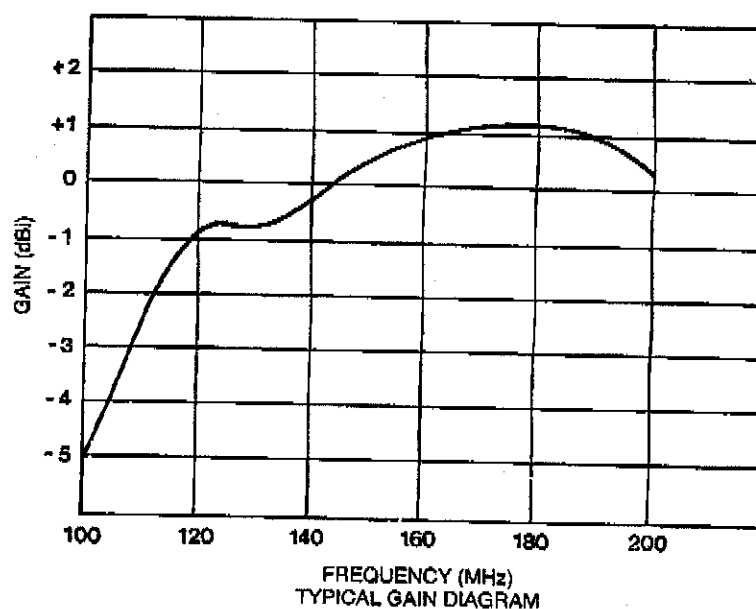
d. AT-140 Antenna

1. Frequency: 29.7 - 400 MHz
2. VSWR: 2.5: 1 at 30-88 MHz
5.0: 1 at 108-117 MHz
2.5: 1 at 118-174 MHz
2.0: 1 at 225-400 MHz
3. Radiation Pattern: Omnidirectional in azimuth
4. Polarization: Vertical
5. Impedance: 50 Ohms
6. Power: 50 Watts
7. Gain: 30 MHz -22.5 dBi
88 MHz -10 dBi
108 - 174 MHz -2 dBi
225 - 400 MHz +2dBi
8. Temperature: -54°C to + 71°C operating
-62°C to + 85°C non-operating
9. Altitude: 50,000 ft



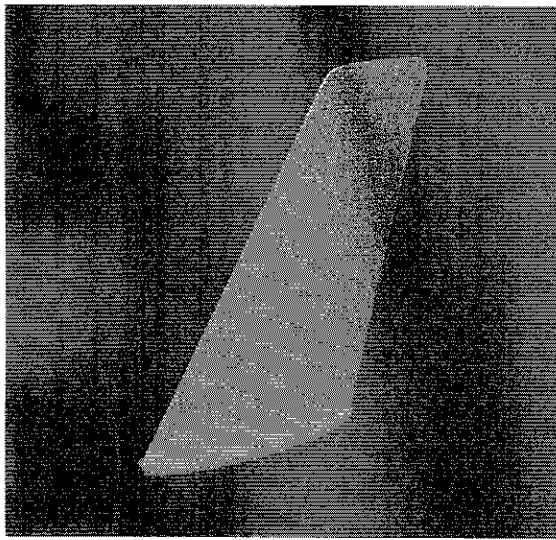
NOTE: ALL DIMENSIONS ARE NOMINAL (MILLIMETRES/INCHES)

NOTE: COAXIAL CONNECTORS
STANDARD AND OPTIONAL FIT
PART No: 21-38 Type 'BNC' standard
PART No: 21-38T Type 'TNC' - optional
PART No: 21-38N Type 'N' - optional



Chelton PN 21-38-3RF/3L6

VHF/UHF S65-111-Series



U.S. Patent No.3,220,006

DESCRIPTION

S65-111-309: Dual frequency VHF/UHF range. All metal, DC grounded to provide lightning protection. Low drag. Extremely rugged. Provides high degree of structural rigidity and protection from rain erosion and sand/gravel abrasion. Eliminates "P" static. Hermetically sealed. Interchangeable with Collins 37R-2U.

NSN: 5985-00-892-0895

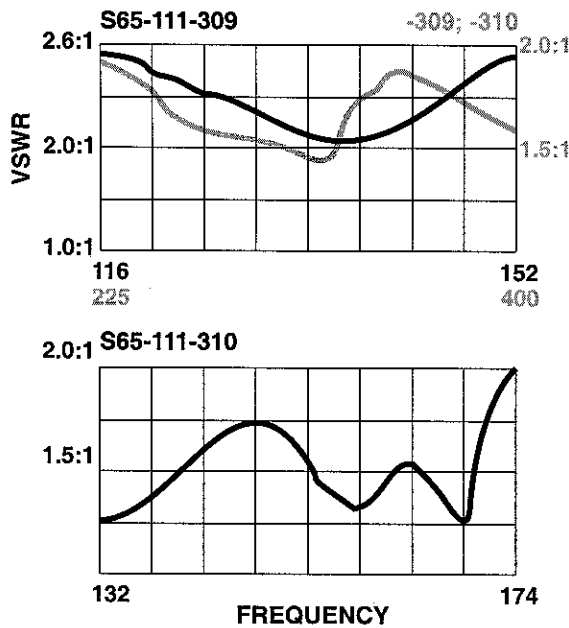
NSN: 5985-21-907-3752

NSN: 5985-01-079-8214

S65-111-310: Same as (-309) except for 132-174/225-400 MHz frequency range.

FEDERAL & MILITARY SPECS: FAATSO C37b, C38b and C59. MIL-STD-810, MIL-E-5400, MIL-A-7772 (ASG), MIL-A-9094, MIL-B-5087.

PERFORMANCE



SPECIFICATIONS

VHF/AM

UHF

VHF/FM

Dual Freq.
S65-111-309

Dual Freq.
S65-111-310

ELECTRICAL

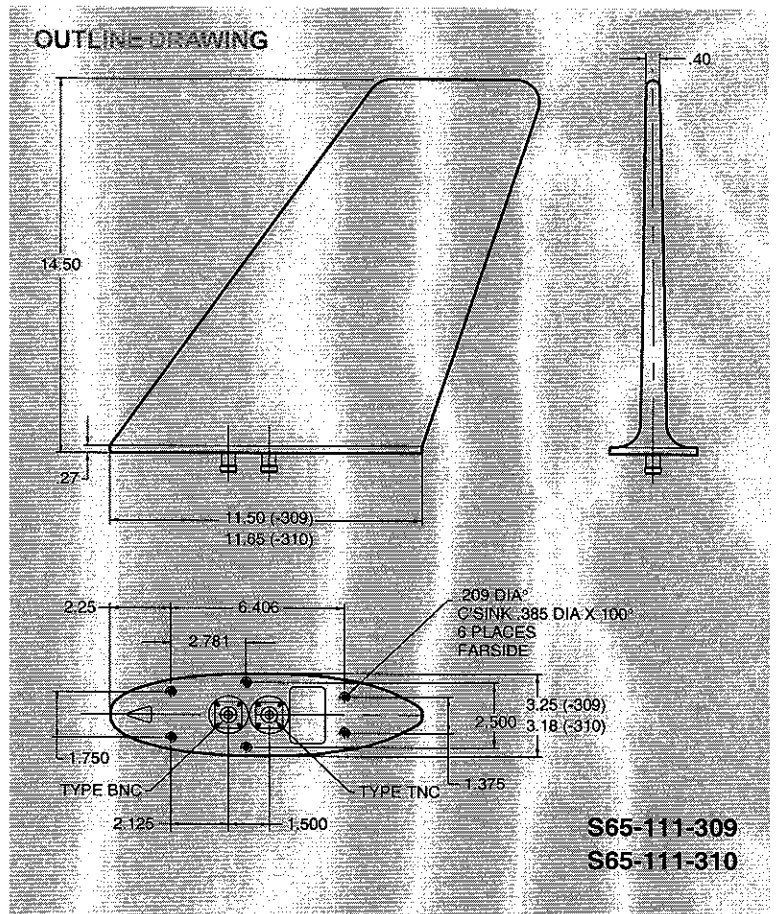
Frequency	116-152 MHz	225-400 MHz	132-174 MHz
VSWR	2.3:1	2.6:1	2.0:1
Pattern	Omni/Az	Omni/Az	Omni/Az
	Cos/EI	Cos/EI	Cos/EI
Polarization	Vertical	Vertical	Vertical
Impedance	50 ohms	50 ohms	50 ohms
Power	100 watts	100 watts	100 watts
Isolation		20 dB	
Lightning Protection ...		DC grounded	

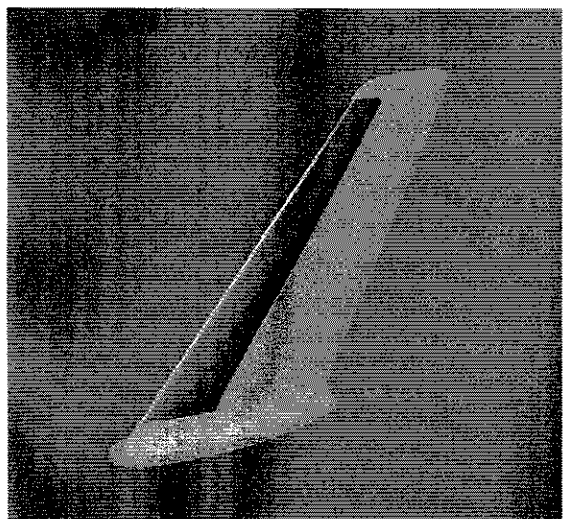
MECHANICAL

Weight	4.2 lbs.
Height	14.5 in.
Material	A356-T61 aluminum casting
Finish	Skydrol resistant enamel
Connector	BNC TNC BNC
Drag	2.5 lbs. Mach .85 @ 35,000 ft.

ENVIRONMENTAL

Side Load	12 psi
Temperature	-65°F to +185°F
Vibration	14 G's
Altitude	60,000 ft.





DESCRIPTION

S65-8282-34: For speeds up to Mach 2.0 with low drag. Designed for use with AN/ARC-182 or similar VHF/AM/FM/UHF transmitter at 30-88/108-174/225-400 MHz. Provides low VSWR over operating band. Six-hole bolt pattern. Interchangeable with Collins 37R-2U. Hermetically sealed. Designed for universal mounting. Ideal for antenna replacement in existing systems where a dual frequency antenna capable of handling 40 watts is required.

NSN: 5985-01-208-2985ZN.

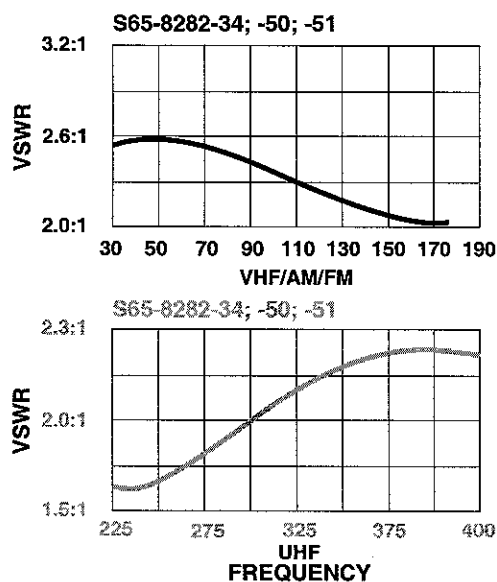
S65-8282-50: Same as (-34) except for right angle TNC connector and 15" pigtail. Fits F-5.

NSN: 5985-55-501-0410.

S65-8282-51: Same as (-34) except for 100 watt power.

FEDERAL & MILITARY SPECS: FAA TSO C37b, C38b and C59. MIL-STD-810, MIL-E-5400, MIL-A-7772 (ASG), MIL-A-9094, MIL-B-5087.

PERFORMANCE



SPECIFICATIONS

VHF/FM

VHF/AM

UHF

S65-8282-34
S65-8282-50
S65-8282-51

ELECTRICAL

Frequency	30-88 MHz	108-174 MHz	225-400 MHz
VSWR	2.6:1	2.3:1	2.3:1
Pattern	Omni/Az	Omni/Az	Omni/Az
	Cos/EI	Cos/EI	Cos/EI
Polarization	Vertical	Vertical	Vertical
Impedance	50 ohms	50 ohms	50 ohms
Power	40 w (-34, -50)	40 w (-34, -50)	100 w
	100 w (-51)	100 w (-51)	(-34;-50;-51)
Lightning Protection ..	DC grounded		

MECHANICAL

Weight	2.5 lbs.
Height	11.85 in.
Material	St. steel / AL-A356-T61 / glass
Finish	Skydrol resistant enamel
Connector	TNC (-34, -51) / TNC Right Angle (-50)
Drag	1.0 lb. Mach .85 @ 35,000 ft.

ENVIRONMENTAL

Side Load	6 psi
Temperature	-65°F to +160°F
Vibration	10G's
Altitude	60,000 ft.

OUTLINE DRAWING

