

VHF/GPS S65-8280-47

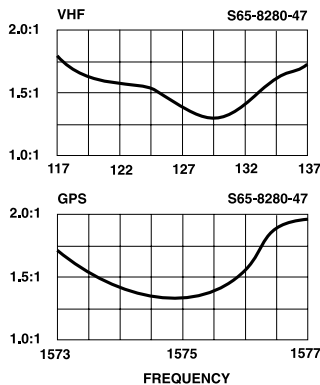


DESCRIPTION

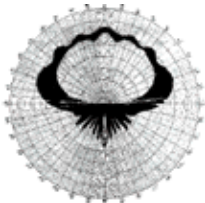
S65-8280-47: VHF all-metal blade antenna is top loaded with an ARINC 743 compliant active GPS antenna. Its dual function provides completely TSO'd GPS and VHF communication within the VHF blade footprint. S65-8280-47 is designed to operate with the Magellan CNS-12 digital radio system which functions as both a GPS navigation system and ACARS transceiver. The antenna may be installed on commuter aircraft and helicopters where antenna mounting space is at a premium. Installers will appreciate the simplicity of adding GPS to helicopters, since no major structural rework is required when replacing the VHF comm blade with this antenna.

FEDERAL & MILITARY SPECS: FAA-TSO C37d, C38d and C129. DO-160, MIL-E-5400, MIL-A-6271, MIL-A-7772 (ASG), MIL-A-9094.

PERFORMANCE



GPS RADIATION PATTERN



SPECIFICATIONS

	VHF / GPS	
	VHF	GPS
	Dual Freq. S65-8280-47	
ELECTRICAL		
Frequency	118-152 MHz	1575.42 MHz
VSWR	2.3:1	2.0:1
Pattern	Omni/Az Cos/EI	—
Polarization	VERTICAL	RHCP
Impedance	50 ohms	50 ohms
Isolation	40 dB	30 dB
Power Handling	25 watts	1 watt
Lightning Protection ...	DC grounded	
Gain Coverage (min) ...	—	-1.0 dBic $0^\circ \leq \theta \leq 75^\circ$ -2.5 dBic $75^\circ < \theta \leq 80^\circ$ -4.5 dBic $80^\circ < \theta \leq 85^\circ$ -7.5 dBic $\theta = 90^\circ$ @ Horizon
Gain (preamp)	—	26 dB
Voltage	—	+4.0 to +24 VDC

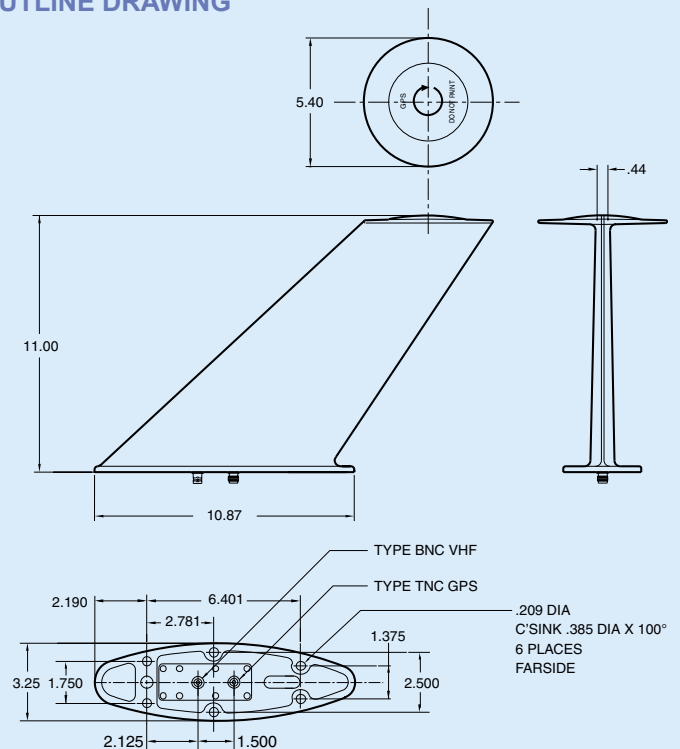
MECHANICAL

Weight	3.6 lbs.
Height	11.0 in.
Material	A356T61 aluminum / thermoset plastic
Finish	Skydrol resistant enamel
Connector	BNC TNC
Drag	1.5 lbs. Mach .85 @ 35,000 ft.

ENVIRONMENTAL

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

OUTLINE DRAWING



S65-8280-47



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