VHF/UHF S65-8282-834

DIGITALLY TUNED



DESCRIPTION

U.S. Patent 7,746,282

S65-8282-834: Is a replacement for the Cobham 12-190-6/1, when used with the provided adapter plate.

Representing current state-of-the-art in digitally-tuned antenna technology, the S65-8282-834 provides high-gain VHF/UHF performance. Frequency tuning is accomplished using solid-state microprocessor technology with switching speeds less than 50 microseconds, supporting secure, frequency-hopping voice communication systems.

The aerodynamic composite blade 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 is ideal for applications with severe mounting concerns.

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 antenna is compatible with Rockwell Collins ARC-210, Raytheon ARC-231, and R&S M3AR Series 6000

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

NSN: 5985015985646

PERFORMANCE

GAIN S65-8282-834											
Freq. (MHz)	30	88	108	174	225	400	512				
Gain	-10	-6	-1	-1	-1	-1	-1				



SPECIFICATIONS												
MODEL	S65-8282-834											
ELECTRICAL												
Frequency	30	40/50	60	70/80/88	108-174	225-512						
VSWR	1.7	1.3	1.5	1.9	2.0	1.8						
Pattern	Omnidirectional in Azimuth											
Polarization	Vertical											
Impedance	50 Ohms											
Switching Speed	< 50 µS											
MECHANICAL												
Weight	5.0 lbs.											
Material	6061-T6 Aluminum Alloy/Fiberglass											
Finish	Skydrol Resistant Polyurethane Enamel											
RF Connector	J1 TNC Female											
DC Connector	J2 MS27505E11A35P Male											
Drag	2.0 lbs. Mach .85 @ 35,000ft.											
ENVIRONMENTAL												
Temperature	-54°C (-65°F) to +71°C (+160°F)											
Altitude	50,000 ft.											
Shock	20 Gs											
Side Load	9 psi											



Note: For Reference Only. Contact Sensor Systems for the latest engineering drawings. Doc # DS S65-8282-834_NC, 061516: MRKT JC ENG RC QC DJ

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