

RF-5800V-V500**FALCON® II VHF
POWER AMPLIFIER**

mobile
multimission
one radio

The RF-5800V-V500 is a high-performance VHF power amplifier for use in vehicle or base station radio systems. The power amplifier complements the RF-5800V-HH VHF handheld transceiver by supplying additional RF power for increased range and link reliability.

The RF-5800V-V500 covers the 30 to 90 MHz frequency band, and can supply a full 50 watts of forward power under demanding VSWR conditions. The unit provides excellent collocation performance in both fixed frequency and frequency-hopping modes.

Other features provided by the RF-5800V-V500 include: integrated handheld battery charger (battery remains attached to the radio) with simultaneous operation and charging, hot "jerk and run" (the handheld can remain powered on while being removed from vehicle system), VIC-1 and VIC-3 interface, and heat sinking for an extended-use duty cycle.

RF-5800V-V500 multiband power amplifier supports all modes and features of the FALCON II VHF radios including, automatic position reporting using an internal or external GPS receiver, integration with computer-based situational awareness systems, tactical messaging, and image transmission applications.



Specifications for the RF-5800V-V500

General

Frequency Range	30 to 90 MHz
Power Input	20 to 32 VDC, MIL-STD-1275 compliant
Dimensions	10.7"H x 7.6"W X 12.4"D
MTBF	5000 hrs per MIL-STD-275
Weight	26 lbs.

Color/Finish	green / powder coat
RF Interface	50 ohms VHF
Collocation	9% frequency and 1.5M antenna separation
Includes	12050-3000-01 Shock mount interface assy.

Receive

FM Sensitivity	-116dBm @ 12dB SINAD
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IF Rejection	>60dB
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Transmit

Harmonic Suppression	>47 dBc typical
Spurious Suppression	>50 dBc typical

Output Power	50W 30 to 90 MHz
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Environmental

Shock/Vibration	MIL-STD-810F
Sand/Dust	MIL-STD-810F

Operating Temperature	-30°C to 60°C
Humidity	MIL-STD-810F

Compatibility

RF-5800V-HH001	VHF handheld radio
RF-5800V-HH101	VHF handheld radio with GPS

AN/VIC-1(V)	Intercom
AN/VIC-3(V)	Intercom
LS-671	Speaker

Radio Features

ECCM	Quicklook 1A
Data Communication	16kbps DTE and IP data rate
SMS	Short messaging Service

COMSEC	CITADEL
GPS	internal (option)
Data Interface	RS-232 sync/async
Directed Calling	Private radio-to-radio call

Amplifier Options

DC Power Cable
Fan Kit

External Speaker

RF-5800V-VHF handheld radio sold separately.
Specifications are subject to change without notice.