

L3HARRIS FALCON RF-7800V-V50X

VHF Power Amplifier

The L3Harris RF-7800V-V50X is a high performance VHF power amplifier designed for use in a variety of radio systems. This flexible solution offers a range of options with advanced features for un-



GENERAL	
RT Nomenclature	RF-7800V-V50X
Frequency Range	30-108 MHz
Input Power	20-30 VDC MIL-STD-1275 compliant
RF Input/Output Impedence	50 Ohms, unbalanced
Collocation	15% frequency 1.5 M antenna separation
External Connections	Speaker power DC input power DC output power Intercom VHF RF port UHF RF port Data remote Remote Keypad Display Unit
Future Proof	Software-defined amplifier

TRANSMITTER	
Power Output	5 W, 20 W, 50 W (user selectable)
Harmonic Suppression	> 60 dBc typical
Spurious Suppression	> 50 dBc typical
Tx Power Consumption	Max 450 W

RECEIVER	
FM Sensitivity	-112 dBm @ 12 dB SINAD
IF Rejection	> 60 dB
Rx Power Consumption	Max 65 W

PHYSICAL	
Dimensions	10.7 H x 19.3 W x 14.0 D in (27.2 H x 7.6 W x 35.6 D cm) VAA only without shock tray
Weight	26 lbs (-11.8 kg) without shock tray 40 lbs (-18.1 kg) with shock tray
Color/Finish	Green (RF-7800V-V501) Black (RF-7800V-V502) Tan (RF-7800V-V503)

ENVIRONMENTAL	
Operating Temperature	-22°F to +140°F (-30°C to +60°C)
MIL-STD-810	Shock/vibration Humidity Sand/dust Altitude Solar radiation Thermal shock Salt fog Blowing dust/sand/rain Icing/freezing rain Immersion Fungus Explosive atmosphere

STANDARD KIT INCLUDES	
12050-3000-XX	Shock Mount/Interface Assembly
12107-0105-XX	Ancillary Kit
10515-0376-4200	System Install/Maintenance Manual

