



L3HARRIS™
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L3HARRIS RF-7800W-PA50X

Rugged Power Amplifier

| GENERAL | |
|---------------------|--|
| RT Nomenclature | RF-7800W-PA500 (Green), RF-7800W-PA501 (Tan) |
| Compatibility | RF-7800W-OU47X, -OU50X |
| Input Voltage | 24 - 57 VDC |
| DC Input Protection | Reverse protection, under voltage and inrush current |
| System Noise Figure | Typical 4 dB |
| Transmit Power | +37 dBm average at BPSK |
| Frequency Range | 4.4 - 5.875 GHz |
| VSWR | Open and short protection |
| Power Consumption | 150 watts |

| PHYSICAL | |
|--------------|--|
| Dimensions | 2.6 H x 7.75 W x 9.3 D in (6.6 H x 19.9 W x 23.6 D cm) |
| Weight | 6.7 lbs (3.04 kg) |
| Color/Finish | FED STD 595 Green (-PA500) FED STD 595 Tan (-PA501) |

| ENVIRONMENTAL | |
|-------------------------|--|
| Shock and Vibration | MIL-STD-810G |
| Immersion | MIL-STD-810G |
| Temperature | -40° F to +140° F (-40° C to +60° C) operational -40° F to +158° F (-40° C to +70° C) storage |
| Sand/Dust/Salt Fog/Rain | MIL-STD-810G |
| Humidity | MIL-STD-810G |
| Altitude | MIL-STD-810G 20,000 ft operational |
| EMI | MIL-STD-461G |

| INTERFACES | |
|-------------------|--|
| DC Input | J5 – MS3114E12-8PW |
| Control Interface | J6 – MS3114E12-10S keyline/ready signals |
| LED Indicators | Bi-color: green (power, no faults), red (power, fault condition) |
| Radio RF Ports | J1/J2 (N-Type, female) |
| Antenna Ports | J3/J4 (N-Type, female) |
| Ground | 10-32 x 3/8 in screw (MS51958-61B) |

| STANDARD KIT INCLUDES | |
|-----------------------|-----------------------------------|
| 12069-3814-01 | PA Mounting Bracket |
| 12069-3960-A25 | Radio-to-PA J6 Control Cable |
| 12069-3940-A20 | Radio-to-PA Coax Cable (2) |
| 12069-3545-01 | HW KIT, RF-7800W, Power Amplifier |
| 10515-6835 | Operator Card, RF-7800W-PA50X |



The L3Harris RF-7800W-PA500 is a five-watt average external power amplifier designed as a modular add-on to RF-7800W radio systems. The amplifier can be used across fixed, at-the-halt or mobile applications to improve range and data rates when operating at longer distances or when using lower gain antennas.

ADDITIONAL ACCESSORIES

| | |
|------------------------|--|
| RF-7800W-PS104 | AC/DC Power Supply for RF-7800W-PA500 |
| 12069-3950-A015 | 15 ft DC Power Cable (PS104 to PA50X) |
| 12069-3950-A100 | 100 ft DC Power Cable (PS104 to PA50X) |
| 12069-3950-A300 | 300 ft DC Power Cable (PS104 to PA50X) |

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