

# 50Watt UHF Mobile Amplifier



## General Specifications

- Frequency Range: 403-450 MHz (UL), 450-512 MHz (UH)
- 50 Watts Output Power
- Input Power 1–5 W
- Spurious & harmonics meets FCC requirements
- Input/output Impedance: 50 Ohm
- Input/output Connector: type “UHF” female
- Duty Cycle at nominal voltage: 50% (5-minute maximum for Transmit mode)
- Operating Voltage: 13.8 VDC (nominal); 17.8 VDC (maximum)
- Receive mode DC current 1.5 mA (maximum)
- Transmit mode DC current: 11 A (nominal); 13 A (maximum)
- DC Connector: terminal block, screws # 6-32
- Load VSWR protection; overheat protection
- Switching time to Transmit mode 400 us (nominal)
- Input/output Connector: UHF
- Conventional cooling
- Operating Temp Range: -30°C to +60°C
- Storage and Transport Temp: -40°C to +70°C
- Humidity: 80% at +40°C (non-condensing)
- Altitude: 10,000 ft. maximum

## Power Input Range

Model Description	Power Input	Power
DSDTUL50-02	1-5 W	403-450 MHz
DSDTUH50-02	1-5 W	450-512 MHz

## Dimensions and Weight

- Dimensions: 2.7”H x 7.7”D x 6.8”W
- Weight: 4 lbs.

## Optional Features Available

- Alternate input/output connectors
  - “TNC” female
  - “N” female
  - “BNC” female

*These are preliminary specifications and are subject to change. Patents applied for.*



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