

## REMOTE AMPLIFIER MULTI-BAND PLATFORM

The **RAMP-25** is an **18-40 watt 30-512 MHz multi-band amplifier** designed to enhance communication performance with PRC-148, PRC-152, PSC-5, PRC-117F or any multi-band radio capable of 30-512 MHz. The **RAMP-25** amplifies both transmit and receive signals, providing the extra boost needed to communicate in noisy environments. The amplifier:

- operates at 12-28 VDC and is factory set for optimal power output
- employs advanced filtering for elimination of co-site interference when antennas are placed in close proximity
- allows for quick & easy operation in any frequency range through automatic frequency selection in SATCOM and LOS modes with dual antenna connections



Part # TSE-RAMP-25

### Each RAMP-25 Comes With:

- BA5590 Adapter Cable (Part #TSE-AMP-25-5590)
- Cigarette Lighter Adapter Cable (Part # TSE-AMP-CIG)
- Flying Leads Cable (Part # TSE-AMP-25-FL)
- Antenna Cable (Part # TSE-AMP-ANT)

- JITC Certified
- EMI
- HERF
- HERO
- HERP
- MIL-STD-188-181
- MIL-STD-188-182
- MIL-STD-188-183
- MIL-STD-188-461
- MIL-STD-882D



## Features

- 40 Watts Transmit Power
- Auto Frequency Selection
- Operates at 12-28 VDC
- Multi-band 30-512 MHz
- Convection Cooling
- Dual Antenna Connections



Available on GSA Schedule **GS-35F-0039T**



**Tactical Support Equipment**

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# Specifications

## Transmit

### LOS MODE

- **Frequency range:** 30-512 MHz
- **Modulation Format:** AM/FM, MPSK, 5 or 25 KHz Bandwidth
- **RF Power Input:** 2-20 watts
- **Max. RF Power Input:** 20 watts CW/PEP
- **RF Power Output:** 5590 – 18 watts\* / Car Cord – 24 watts\* / 24-30 VDC - 40 watts\*
- **Harmonics:** -60 dBc
- **Transmit Duty Cycle:** 4:1 RCV to TX

### SATCOM MODE

- **Frequency range:** 292-318 MHz
- **Modulation Format:** FM /Multi-Phase 5 or 25 KHz Bandwidth
- **Cosite Suppression:** 30 dB
- **Switching Speed:** JITC Certified / DAMA Compliant
- **RF Power Input:** 2-20 watts
- **Max. Power Input:** 20 watts
- **RF Power Output:** 5590 – 18 watts\* / Car Cord 24 watts\* / 24-30 VDC - 40 watts\*
- **Harmonics:** -60 dBc
- **Transmit Duty Cycle:** 4:1 RCV to TX

\* **Note:** RF output figures are average across the 30-512 MHz frequency spectrum. Power output may exceed 40 watts or drop below 18 watts depending upon actual frequency and input power.

## Receive

### LOS MODE

- **Frequency Range:** 30-512 MHz
- **Insertion Loss:** 1.5 dB Max

### SATCOM MODE

- **Frequency Range:** 242-268 MHz
- **Noise Figure:** 3.5 dB
- **Receive Gain:** 10 dB

## General

- **Operator Controls:** SATCOM/LOS Mode Switch
- **Power Source:** 12-28Vdc
- **Power Consumption TX:** 4.1A Max (BA-5590), 5.1A Max (Cig. Cable), 5.4A Max (28VDC Cable)
- **Power Consumption RCV:** SAT 175mA, LOS 100mA
- **Radio Connector:** BNC female
- **SATCOM Antenna:** Type N female
- **LOS Connector:** TNC female
- **Input VSWR:** 2:1
- **VSWR Mismatch:** No damage
- **High temperature:** Power fold-back protection
- **DC off Bypass:** Routes RF input to LOS
- **Operating Temperature:** -20C to +60C
- **Cooling:** Natural Convection
- **Dimensions:** 3.75" H x 4.25" W x 7" D
- **Weight:** 4.4 Lbs
- **Warranty:** 3 years

## Optional Accessories

- 19VDC Power Supply (Part # TSE-19V-25-DC)
- Radio Shock Mount (Part # TSE-RM-2)
- External Speaker (Part # TSE-SPK-281)
- Antenna Switch (Part # TSE-ANT-S)
- TACSCAT Folding Antenna (Part # TSE-HTA-TACSAT)
- Vest Antenna (Part # TSE-HTA-SINCGARS)
- Manpack SATCOM Antenna (Part # TSE-SAT-MP-A12)
- Handheld SATCOM Antenna (Part # TSE-RF-SAT-HH)
- Mobile Antenna System (Part # TSE-AV460-0-00)
- Egg-beater or "O-Wing SATCOM (Part # TSE-AV2091-0)
- Foldable High-Gain SATCOM (Part # TSE-AV2011)
- X-Wing High/Low Angle SATCOM (Part # TSE-AV2090-4)
- Miniature Coat-Pocket High-Gain SATCOM (Part # TSE-AV2125-2)
- Foldable X-Wing Antenna Mag Mount (Part # TSE-AV2090-10)
- Fixed X-Wing Antenna Mag Mount (Part # TSE-AV2090-7)

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