

## REMOTE AMPLIFIER MULTI-BAND PLATFORM 75 Watt

The DAMA compatible 75-Watt Remote Amplifier Multi-band Platform (**RAMP-75**) provides transmit and receive amplification across the entire 30 MHz to 512 MHz band and provides co-site filtering for UHF SATCOM communications.

The **RAMP-75** is suitable for vehicular, airborne, maritime or fixed station applications and is compatible with all military radios including the PRC-148 (MBITR), JEM, PRC-152, PSC-5, SINGARS Radio and PRC-117F.

The **RAMP-75** is weather proof and may be located remotely with the antenna for optimum performance. The amplifier has a single connection to the Bias-T, with two operation-specific antenna ports (LOS & SATCOM).

The Remote Bias-T provides power and remote control of operating mode and power output.

To enhance fielded communications suites, the **RAMP-75** is a form and fit replacement for the field proven AM-SAT-50, making system upgrades simple.



Part # TSE-RAMP-75

**JITC Certified**



**Remote Bias-T  
Optional Item**

Part # TSE-BIAS-75

Dimensions: 1½" H x 4" W x 5½" D

For more information, contact [sales@tserecon.com](mailto:sales@tserecon.com)

## Features

- 75 Watts Transmit Power
- Auto Frequency Selection
- Full Remote Control (Optional)
- Multi-Band 30 - 512Mhz
- DAMA, IW, HaveQuick & SINGARS Frequency Hopping
- Replacement for the AM-SAT-50



Available on GSA Schedule

**GS-35F-0039T**



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# Specifications

## Transmit

### LOS MODE

Frequency range:	30-512 MHz With Automatic Frequency Detection
Modulation Format:	AM/FM/MPSK 5 or 25 KHz Bandwidth
RF Power input:	2-20 Watts* CW/PEP
RF Power Output:	User Selectable 20/40/75 Watts CW/PEP
Harmonics:	-60 dBc
Transmit Duty Cycle:	20% @ full power, no cutback/Continuous duty with built-in thermal protection

### SATCOM MODE

Frequency range:	292-318 MHz, With Automatic Frequency Detection
Modulation Format:	FM/MPSK 5 or 25 KHz Bandwidth
Cosite Suppression:	30 dB
Switching Speed:	DAMA, IW, HaveQuick & SINGARS Frequency Hopping Compliant
RF Power Input:	2-20 Watts* CW/PEP
RF Power Output:	User Selectable 20/40/75 Watts CW/PEP
Harmonics:	-60 dBc
Transmit Duty Cycle:	20% @ full power, no cutback/Continuous duty with built-in thermal protection

\* **Note:** RF Power Input depends on length and type of coaxial cable used.

## 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 Typical
Receive Gain:	10 dB With LNA Bypass Capability

## General

Operator Controls:	SATCOM/LOS Mode Switch and Power Output Switch
Power Source:	24-30VDC, 11 Amps Typical Transmit, 500 mA Typical Receive
Front Panel Indicators:	Power On, Transmit, VSWR, Temp, LOS, SATCOM, Communications Fault
SATCOM/LOS Antenna Connector:	Type N Female
LOS Connector:	Type N Female
Input Connector:	Type N Female
Input VSWR:	1.5:1
VSWR Mismatch:	High VSWR Indication, No Damage Due To Mismatch
High temperature:	Power Fold-Back Protection
DC off Bypass:	Routes RF Input To LOS Connection
Operating Temperature:	-20C to +60C Natural Convection, Over Temp Power Fold Back Protection
Cooling:	Natural Convection
Immersion:	Tested to IP-67
Amp Dimensions:	3" H x 6" W x 12" D – Same As AM-SAT-50 Amplifier
Amp Weight:	12 Lbs
Remote:	Optional Remote Bias-T
Bias-T Dimensions:	1 ½" H x 4" W x 5 ⅛" D (optional item)
Bias-T Weight:	1 Lbs, ⅝ Oz (optional item)

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