



TRICOM
RESEARCH, INC.

AM-SAT-50

50 WATT SATCOM AMPLIFIER

The AM-SAT-50 is a DAMA Certified 50 Watt UHF SATCOM RF Power Amplifier designed to enhance communications on critical satellite links.

The AM-SAT-50 amplifies both transmit and receive signals to improve signal margin in noisy environments or where antenna patterns are less than optimal.

COSITE filtering allows multiple amplifiers to be co-located without interference and a low noise preamplifier with variable gain provides a clean receive signal and compensation for various cable lengths.

The amplifier may be remotely located from the radio and may be powered over a single coax with a bias-tee or powered directly via the front panel DC connector.

FEATURES

- 50 Watts SATCOM Transmit Power
- JITC DAMA Certified
- 25/35/50 Watt Settings
- 10/20/30 dB Receive Gain
- Elimination of Cosite Interference
- Weather Resistant
- Remote Operation
- Use With or Without Bias Tee
- RF Bypass When Powered Off
- Easy Installation



TRANSMIT SPECIFICATIONS

Frequency Range	290-318 MHz
Out of Band Rejection	50 dB
Transmit Power	25/35/50 Watts typical
Switching speed	JITC DAMA Certified
RF power Input	5 Watts typical (2 Watts to 20 Watts)
Harmonics	-60 dBc
VSWR	1.5:1
Transmit duty cycle	Continuous

RECEIVE SPECIFICATIONS

Frequency Range	242-270 MHz
Out of Band Rejection	50 dB
Noise Figure	3.5 dB typical
Receive Gain	10, 20, 30 dB typical, selectable
VSWR	1.5:1

GENERAL SPECIFICATIONS

DAMA	Certified
Bypass Insertion Loss	1 dB typical, 30 to 512 MHz
Remote Distance	Up to 150 feet
Supply Voltage	24-32 VDC
Supply Current	8 Amps Typical
Protection	VSWR and Temperature
Operating Temperature	-20 to +60 C
Environmental	Weatherproof – Amplifier, Splash proof – Bias Tee
Dimensions	6 x 3 x 12.25 inches
Weight	10 Lbs.