



A1205-0911-4007
50 Watt TacSat amplifier for UHF SatCom

**Enhance Receive Sensitivity,
Boost Transmit Power and Suppress Interference**
Maintain link performance in the toughest situations

An essential part of any resilient, high performance Hub or SatCom on the Move solution.

High intercept LNA captures the receive noise figure and compensates for high loss cables and low sensitivity receivers.

High performance filters reject interfering signals, preventing them from entering the receive chain

Fail soft by-pass mode automatically activates if the power supply fails.

Auto sensing high speed switches for DAMA compatible operation without need for microphone key switch signal.

Co-site interference suppression, no receiver degradation from adjacent transmitters, when operating in groups. Expands operational capability and simplifies group messaging.

High efficiency power amplifier boosts transmit signal, automatically adjusts for cable loss and signal fluctuations to provide specified output power under all conditions.



PARAMETER

SPECIFICATION

Transmit

Frequency Range	292 to 318 MHz
Input Power Range	0.2 W to 20 Watts (+23 to 43 dBm)
Output power	25 or 50 Watts, user selectable
O/P power variation with input	+/- 0.5 dB
O/P power variation with frequency	+/- 0.5 dB
O/P power variation with temp	+/- 0.5 dB
Harmonics	- 60 dBc

Receive

Frequency Range	242 to 270 MHz
Gain	43 dB
Noise Figure	2.5 dB
Input Compression Point	-33dBm in receive band 243 to 270 MHz +40dBm from 30 to 185 MHz and 290 to 512 MHz

General

Bypass insertion loss	0.5 dB max over 30 to 512 MHz when DC off
Switching Speed	DAMA compatible Tx Off to On 35 micro secs to within 0.25 dB fully settled within 100 micro secs Tx On to Off 12 micro secs to within 0.25 dB
Power Supply	+20 to +32 VDC @ 8 Amps max (6.5A typ)
Protection	VSWR and Temperature
Size and Weight	360 x 160 x 90 mm 8.0 kg (14.2 x 6.3 x 3.5 ins 17.6 lbs) excluding baseplate
Temperature Range	-20 to +60 °C operating -40 to +85 °C storage
Humidity	100% condensing

SNXP reserves the right to change the specifications without notice

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