



RF Linear Power Amplifier HF/VHF Ruggedized Tactical PA

Linkabit's WAVpac Linear HF/VHF Amplifier is designed for use with military transceivers operating in demanding environments. The amplifier is extremely small and meets the requirements of MIL-STD-810 for immersion, shock and vibration.

The WAVpac Linear Power Amplifier increases the range of a receivertransmitter by increasing the output to 150 watts in HF and 62.5 watts in VHF. Switching of the amplifier's internal harmonic filters is also automatically accomplished with the built-in RS-485 control interface.

The WAVpac Linear Power Amplifier provides connections for an external variable speed cooling fan kit. When this kit is installed, the amplifier is rated for continuous duty key-down operation in all modes of service. The amplifier's high-performance harmonic filters are controlled automatically from the receiver-transmitter.

The WAVpac Linear Power Amplifier is powered from a 18 to 32 VDC, negative-ground, vehicular source.

The small size, robust design and construction of these power amplifiers guarantee continuous operation and high reliability in the most demanding environments.

FEATURES:

- •1.6 TO 108 MHz OPERATION
- USB, LSB, CW, AME, FM, DATA
- 150W CONTINUOUS DUTY IN HF, 62.5W CONTINUOUS DUTY IN VHF
- FULL POWER INTO 3:1 VSWR
- FULL BUILT-IN PROTECTION SYSTEM





SPECIFICATIONS	
Frequency Range	1.6 to 108 MHz
Modes of Operations	J3E (USB, LSB)
	H3E (AME)
	J2A (CW)
	F3E (FM)
RF Input/Output Independence	50 ohm nominal, unbalanced
Power Input	18 to 32VDC Less Than 20 Amps.
Temperature Range	-40°C to +70°C
Shock/Vibration	MIL-STD-810E
Leakage	MIL-STD-810E (1 meter depth)
Humidity	MIL-STD-810E (0 to 95%)
Size	6.0W x 11.2D x 4.5H inches
	15.2W x 28.8D x11.0H cm
Weight	9.5 lbs. (4.3 kg)
POWER AMPLIFIER	
Power Output	150 watts (1.6 MHz to 30 MHz)
	62.5 watts (30 MHz to 108 MHz)
Duty Cycle	100%
RF Drive Requirements	100mW nominal (+20dBm)
Intermodulation Distortion	-24 dB from either tone of a two tone envelope
Harmonic Output	≤40 dBc
CONTROL	
Control Data	Serial Data Stream at 115,200 bps
Electrical Interface	RS-485
Status	0-11 V Composite Feedback Signal

Note: All specifications subject to change without notice

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