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Amplifier

1.3 GHz

1880 S. Flatiron Court, Suite F
Boulder, CO 80301

tf 866.923.6168
p 303.381.9200
f 303.786.9948

www.freewave.com
sales@freewave.com

Overview:

FreeWave Technologies Inc. provides amplifiers for Government, Military, and any qualified industry. 100% of our amplifiers are tested through 5 discreet stages to ensure quality and performance when installed. The AAP Series of Bilateral Amplifiers are designed to improve the range of 1.3 GHz Spread Spectrum radios by amplifying both the transmitted and received signals right at the antenna, mitigating cable loss in a temperature range from –40° C to +75° C.

Features:

- On the receive direction, the amplifiers incorporate GaAs FET amplification along with SAW and dielectric resonator filtering; this results in a 1.5 dB Noise Figure and a +1 dBm input intercept point. A combination of SAW and lowpass filtering reduces harmonic output to less than –40 dBc.
- On the transmit direction, the amplifiers generate 5 W, making them the ideal solution for extending the range of spread spectrum radios.
- The amplifiers are powered either directly or through the antenna cable, simplifying the installation process.
- The amplifiers are packaged in sealed, milled, aluminum housing, providing the utmost weather protection.
- Temperature range from –40° C to +75° C.





Remote Site Products - 1-888-532-2706 - www.remotesiteproducts.com
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com
http://www.remotesiteproducts.com/p-10689-FreeWave-AAP-5W-D-Bilateral-Amplifier-1.35-1.39-GHz-5-Watt.aspx

Amplifier

Technical Specifications

Frequency	
Range	1.35-1.39 GHz
Turn on Transients	*-70 dBc @ fc +/- 230 KHz, higher for lower turn-on times*
Input RF Power	160 mW to 300 mW
Harmonic Output	Less than –40 dBc
Output Power	AAP-5 Watts
Receive	
Intercept Point	+1 dBm referred to input
Noise Figure	1.5 dB Max
Gain	7 dB minimum
Power Supply	
Supply Voltage	10-14 VDC
Power Consumption	Peak Transmit: 3 A @ 12 VDC Receive: 60 mA @ 12 VDC
General Information	
Enclosure	Milled Aluminum with Integrated Bracket
Dimensions	63.5mm W x 102mm L x 21.3mm H (2.5in. W x 4.0in. L x 0.84in H)
Amplifier RF Connectors	To Diplexer: SMA Female To Modem: SMA Female
Diplexer RF Connector	To Amplifier: Type-N Female To Antenna: Type-N Female
Temperature	-40° C to +75° C
Also Available By Special Order	
220 Vac Power Supply	
Directly Powered Amplifier (no diplexer) with on/off control	
Faster turn-on/turn-off: 1µs	
50 ms time-out disabled (for continuous transmissions)	

FreeWave Radios Require Professional Installation. Specifications may change at any time without notice. ©2011 FreeWave Technologies, Inc.

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

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Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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