

CONVENTION NEWS: Pulsed Power-Combined Wideband TWT Amplifiers from dB Control to Debut at AOC 2012, Booth 421

Suite of Four Traveling Wave Tube Amplifiers for EW, ECM Defense Applications Span 2-18 GHz Frequency Range

September 10, 2012 – Fremont, Calif. – dB Control, a manufacturer of reliable, high-powered microwave amplifiers, radar/electronic countermeasure (ECM) transmitters and power supplies, will introduce a suite of four pulsed power-combined Traveling Wave Tube Amplifiers (TWTAs) in Booth 421 at the 49th Annual AOC International Symposium and Convention in Phoenix, Arizona September 23-26, 2012. The new TWTAs use two wideband, periodic permanent magnet (PPM)-focused TWTs to amplify CW, AM, FM or pulse-modulated signals. Available for either local or remote operation, the devices are suitable for test and measurement, RFI/EMI/EMC testing, antenna pattern and radar cross-section measurements, electronic countermeasures (ECM) and Electronic Warfare (EW) simulation. Specifications include:

- **dB-3901:** 10kW PW output, 6% duty cycle, 2-4 GHz frequency range
- **dB-3902:** 8kW PW output, 6% duty cycle, 4-8 GHz frequency range
- **dB-3903:** 9kW PW output, 8% duty cycle, 8-12 GHz frequency range
- **dB-3904:** 7kW PW output, 6% duty cycle, 12-18 GHz frequency range

“Protection from future threats is non-negotiable in the defense industry – and TWT technology continues to make this possible. This new suite of amplifiers proves that TWTAs remain an unparalleled and reliable option for rugged, high-power military applications. And with only one RF input and one RF output, they are extremely easy to operate,” said dB Control Vice President of Business Development Steve Walley.

Designed and manufactured in-house, the TWTAs employ a modular architecture and low-noise power supply topology.

In addition, dB Control utilizes the proprietary transformer fabrication, encapsulation and high-voltage potting techniques it developed specifically for demanding military applications.

About dB Control

Established in 1990, dB Control Corp., a subsidiary of the Electronic Technologies Group (ETG) of HEICO Corp., supplies mission-critical, often sole-source, products worldwide to military organizations, as well as to major defense contractors and commercial manufacturers. dB Control designs and manufactures reliable high-power TWT Amplifiers (TWTAs), microwave power modules (MPMs), transmitters and power supplies with modulators for radar, electronic countermeasures (ECM), data links, communications and instrumentation applications. The company’s high-power amplifiers use solid state, as well as vacuum electron devices and cover the 1 to 50 GHz frequency range. The modularity of dB Control’s designs enables rapid configuration of custom products for a variety of platforms, including ground-based and high-altitude military manned and unmanned aircraft. dB Control has an outstanding record of successfully repairing, refurbishing and replacing tightly packaged high-voltage transformers, assemblies and power supplies. The company offers specialized contract manufacturing, transformer winding and testing, full vacuum encapsulation, pressure cure, conformal coating and repair depot services from its modern 52,100-square-foot facilities in Fremont, California. www.dBControl.com.

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