

About dB Control

Established in 1990, dB Control Corp. supplies mission-critical, often sole-source, products worldwide to military organizations, as well as to major defense contractors and commercial manufacturers. dB Control is a subsidiary of the Electronic Technologies Group of HEICO Corp., a publicly traded aerospace and electronics company with more than 60 subsidiaries. dB Control designs and manufactures reliable high-power TWT amplifiers (TWTAs), microwave power modules (MPMs), transmitters, high- and low-voltage power supplies, and modulators for radar, electronic countermeasures (ECM), and data link applications. 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. Acquisitions in 2019 (TTT-Cubed, Inc.), 2021 (Paciwave, Inc.) and 2022 (Charter Engineering, Inc.) added custom RF



sources and receivers, RF/microwave components and integrated subsystems, and precision electromechanical switches and components to the company's product offerings. dB Control also offers specialized contract manufacturing and repair depot services from its modern 40,000-square-foot facilities in Fremont, California. The company is AS9100D- and ISO 9001:2015-certified.

Reliability isn't an option – it's a requirement.



dB Control delivers.



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Products

TWT Amplifiers

High-power, helix and coupled-cavity TWTAs, 1-96 GHz frequency range, continuous wave or pulsed power. Built to withstand harsh environmental conditions. Suitable for shipboard, ground mobile and unpressurized airborne environments.



Microwave Power Modules

High-efficiency, conduction, air, and liquid-cooled. Extremely dense packaging across 2-46 GHz frequency band. Continuous wave or pulsed power, these MPMs meet stringent SWaP requirements and are based on a modular design for easy customization.



Millimeter Wave Products

TWTAs & MPMs (up to 45.5 GHz) feature reliable connectivity to combat threats at 70,000 ft. above sea level, provide high bandwidth on the high seas, and deliver faster tactical communications in harsh environments.

Power Supplies

Tightly packaged high- and low-voltage power supplies for airborne, shipboard and ground-based applications. Fully qualified for mission-critical military operations. Suitable for very-low phase noise and spurious radar transmitters, SAR, multimode radars, data links and more.



RF/Microwave Components & Integrated Subsystems

- Frequency Locked Oscillators (FLOs)
- Instantaneous Frequency Measurement Units (IFMUs)
- Digital Control Units (DCUs)
- Antenna Control Units (ACUs)
- Integrated DCUs (IDCUs)
- Custom RF Sources & Receivers

Custom Components

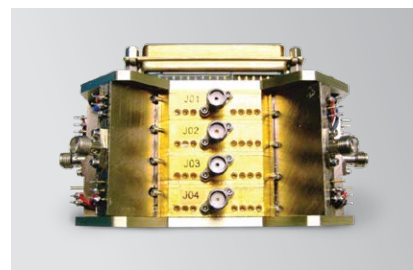
- PIN Attenuators
- PIN Limiters
- Video Products
- Switching Assemblies
- Integrated Subsystems

RF/Microwave Switches

Coaxial Electromechanical Switches with superior RF performance, reliability, and repeatability for Defense, Commercial and High-Power Applications. Thousands of fast-delivery switch variations from DC to 40 GHz, including SPDT, Transfer (DPDT), Multi-Position (SP3T-SP12T), and internally or externally terminated models.



PIN Diode Switches tailored to key performance parameters include reflective or absorptive designs with options for SPST through SP24T, low loss, high isolation and fast switching speed. Outstanding quality and customer service.



Military & Commercial Markets

dB Control's products are used for a wide variety of applications—including radar (multimode, pulse Doppler and SAR), electronic countermeasures (ECM), electronic warfare (EW), threat simulation, airborne data links, high data-rate digital communications, test and measurement (RFI and EMC), commercial X-ray, antenna pattern and radar cross-section measurement.

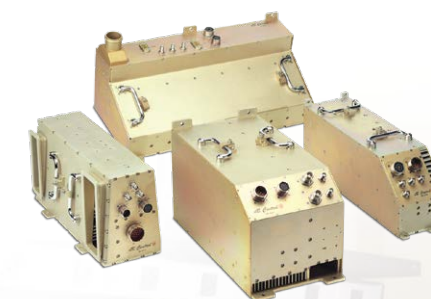
Custom-Built Products

All products can be quickly and easily configured to meet custom specifications and platform requirements for ground-based, shipboard and high-altitude military manned and unmanned aircraft. By using a modular construction based on mature technologies and proven designs, and by working with standard modules and manufacturing processes, we produce products that cost less, are easy to maintain and are available in production quantities.



High-Voltage Specialists

Many dB Control products contain tightly packaged high-voltage circuitry. Critical to the success of these designs is the encapsulation process, which has been perfected in our advanced encapsulation laboratory. All encapsulated modules are manufactured in house. Assembly of these tightly packaged products is performed by experienced specialists trained in the safe assembly of products containing high-voltage circuitry. Our excellent reputation for encapsulation and high-voltage winding, and our ability to assemble high-voltage circuitry, is known throughout the industry.



Specialized Contract Manufacturing

For companies looking to outsource, dB Control offers specialized contract manufacturing services for high-voltage transformers, power supplies, and high-voltage assemblies. Full vacuum encapsulation, pressure cure, and conformal coating laboratory services are available, as is transformer winding and testing.

