

AUTO

NOISE: 26.3
ELEV: 0.75

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



dB Control delivers.

SCALE: 1KM/PXL
50KM



RADAR IMAGE

- TWT Amplifiers
- Microwave Power Modules
- Power Supplies
- Repair Depot Services
- Specialized Contract Manufacturing



TWT Amplifiers

| Packaging Style | Frequency | Output Power | Applications |
|--|---------------------------|--|---|
|  Pod Mount | Sub-bands within 1-50 GHz | 20W-500W CW 100W-10kW Pulsed | <ul style="list-style-type: none"> • Airborne Data Links • Airborne/Shipboard/ Ground-Based Radar • Antenna Pattern & Radar Cross-Section Measurements • Airborne/Ground-Based Communication Systems • Airborne/Shipboard/ Ground-Based Electronic Countermeasures (ECM) • Electronic Warfare Threat Simulation • EMI/EMC Tests • RF Components Test • RFI Susceptibility Test • Test & Measurement |
|  Split Package | Sub-bands within 1-50 GHz | 20W-500W CW 100W-10kW Pulsed | |
|  Custom Package | Sub-bands within 1-50 GHz | 20W-500W CW 100W-70kW Pulsed Power-combined units to 1kW CW or 10kW Pulsed | |
|  Hub Mount | Sub-bands within 1-50 GHz | 20W-500W CW 100W-10kW Pulsed | |
|  Rack Mount | Sub-bands within 1-50 GHz | 20W-500W CW 100W-10kW Pulsed Power-combined units to 1kW CW or 10kW Pulsed | |



Military and Commercial Markets

dB Control supplies mission-critical (often sole source) products worldwide to military organizations, as well as to major defense contractors and commercial manufacturers. Our products are being used in a wide variety of applications, including radar (multimode, pulse Doppler and SAR), electronic countermeasures (ECM), 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

dB Control's 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.



Reliability by Design®

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.



Microwave Power Modules

| Packaging Style | Frequency | Output Power | Applications |
|---|--|---------------------------------------|---|
|  Compact, Conduction Cooled | Radar Bands X, Ku Bands Wide Bands 2-40 GHz | 20W-400W CW, 100W-2kW Pulsed Power | <ul style="list-style-type: none"> • Airborne Data Links • Airborne/Ground-Based Radar • Airborne/Ground-Based Communication Systems • Airborne/Ground-Based Electronic Countermeasures (ECM) |

Power Supplies (Airborne and Ground Based)

| Packaging Style | Input Voltage | Output Voltage | Power (Watts) |
|---|---|----------------|---------------|
|  High Voltage | 115 VAC, Single Phase, 50/60Hz 220 VAC, Single Phase, 50/60Hz 115/200 VAC, 3 Phase, 400Hz 208 VAC, 3 Phase, 50/60Hz 220/380 VAC, 3 Phase, 50/60Hz 480 VAC, 3 Phase, 50/60Hz 270 VDC 28 VDC | 3-50kV | 200W-7kW |

Repair Depot

dB Control's repair depot complements its contract manufacturing services with the ability to repair, refurbish, or replace microwave amplifier components. Our outstanding record of successfully repairing tightly packaged high-voltage power supplies, and our expertise with high-voltage and high-power microwaves, enables us to offer specialized testing services as well.





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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), and data link 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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MKT0465 Rev D

TWT AMPLIFIERS | MICROWAVE POWER MODULES | POWER SUPPLIES



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