



High Power Solid State Power Amplifiers And Control Components



MILITARY & COMMERCIAL APPLICATIONS

- ELECTRONIC WARFARE
- COUNTER-IED
- COMMUNICATION JAMMING
- RADAR/IFF
- MEDICAL EQUIPMENT
- ACTIVE SCANNED ARRAYS
- SATCOM
- EMI/EMC TESTING
- LAB TESTING



The Right Solutions to Meet Your Needs

ABOUT COMTECH PST

Comtech PST, founded in 1987, designs and manufactures solid state high-power amplifiers, RF microwave high-power control components and receiver protection products. Amplifier products operate to 18 GHz with output power levels to multi-kilowatts. Control components and receiver products operate to 40 GHz and multi-kilowatts power.

A subsidiary of Comtech Telecommunications, Comtech PST is part of the Comtech Government Solutions Sector serving the defense, wireless and satellite (EMI/EMC) communications, and medical system markets. Our design and manufacturing strengths support high-quality, high-complexity designs to meet your every need.

Our products are utilized in various military and commercial applications including Electronic Warfare, Radar/IFF, Military Communications, SATCOM, Medical Equipment, and EMI/EMC testing. All are designed to operate in airborne, ground, mobile, and severe military environments.

Whether your need is for the receive or transmit portion of a system we have a product to offer. From stand alone amplifier modules to rack-mounted amplifier systems, to a wide array of high power (T/R and Multi-Throw) switches, limiters, digital attenuators, and multi-function assemblies designed to meet your specific requirements.

COMMITTED TO CUSTOMER SATISFACTION

ONE COMPANY—TWO LOCATIONS

With design and manufacturing locations in Melville, NY and Topsfield, MA, Comtech PST has the facilities and capabilities that ensure our products meet the highest standards of quality and performance from design through high-volume manufacturing every time.

Both locations have state of the art Class 100,000 Hybrid Chip and Wire clean rooms, offering the manufacturing capabilities to die/bond and ball bond, wedge bond, and bond pull every product. These facilities offer both low rate prototype runs and higher volume manufacturing. Our manufacturing facility includes assembly areas, in process and final inspection space and a significant amount of test equipment for 100% low-level and high power testing of every product we manufacture.

The key objectives of our quality system are to ensure that the acceptance, workmanship, performance, delivery, and reliability standards of our customers are met. Our operators, technicians, and inspectors are trained and certified in accordance with IPC-A-610 Acceptability of Electronic Assemblies. Solder operators are trained and certified in accordance with IPC/EIA J-STD-001.

Comtech PST: Defining State of the Art

PRODUCTS:

High Power Amplifiers



Model BMC928958-1000

1000 Watts, X-Band, Pulsed
Solid State Power Amplifier Module

- High Output Power Dynamic Range
- RF Input & Output Sample Detectors
- Pulse Width and Duty Factor Protection
- Thermal and Load VSWR Protection
- Optional Digital Interface for Control & Status Monitoring



**8kW to
16kW
Available**

X-Band Transmitter

TWT replacement

- Reconfigurable/Custom Packaging
- Air, Ground, or Ship Applications

SMT Control Components



0.59" x 0.63" High Power T/R Switch

- Handles 3kW of power
- Operates from 150 MHz to 2500 MHz

0.532" x 0.246" x 0.129" High-Power Limiter

- Operates from 20MHz to 6 GHz
- Handles 10W CW power



0.65" x 0.7" High-Power Broadband Limiter

- Operates from 0.1 GHz to 18 GHz
- Protects receiver circuitry

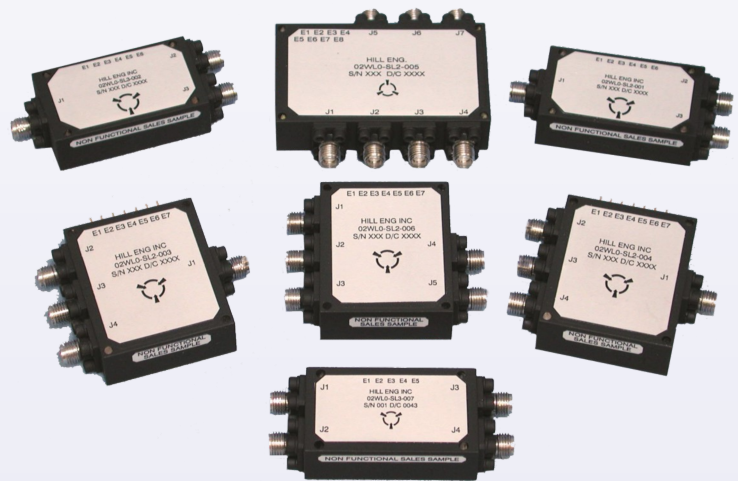


MARKETPLACE INTELLIGENCE

STANDARD AND CUSTOM DESIGNS

Comtech PST's engineers will work with you to create a product that fits your system's needs using combinations of amplifier modules, switches, switched attenuators, filters, and limiters configured to fit your available space. By reducing the number of interconnections, the system designer saves SWaP as well as component count to improve reliability (at a lower cost).

Our commitment is to focus on designs that will meet customer requirements for reduced size without compromising performance. Employing our design methodology using surface mount techniques in T/R Switches, Limiters, and other RF Control products have proven our capability to support the next generation airborne, shipboard and ground based applications.



Airborne Switch Suite



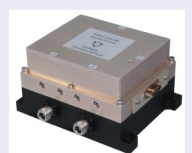
SP4T Switch



SP6T Switch



Limiters



SP2T Switch

NEXT GENERATION AMPLIFIER DESIGNS

AMPLIFIER SYSTEMS AND MODULES



BHED1939-50
1-3GHz, 50W



BME58278-100
500-2700MHz, 100W



BME69189-100
6-18GHz, 100W



BME69189-50
6-18GHz, 50W



BPHED27457-400
25-450MHz, 400W

Our lineage dates back to the 1970's and continues to revolutionize the solid-state RF amplifier industry today. Our designs maximize amplifier performance by achieving higher power density, greater efficiency, improved thermal management, and size reductions. Comtech closely aligns itself with our RF device partners to be ahead of market trends in the aerospace and defense sectors. This arrangement allows us to evaluate the best devices for the specific application. We also produce custom products for highly specialized medical, satellite, and R&D laboratory markets.

Our design process starts with understanding the customer's requirements. Close relationships develop between the engineering teams, building a solid base for a stable specification, product development, and ending in program success! Our dedicated team approach utilizes common industry design tools for RF, thermal, and CAD simulations, allowing for seamless and collaborative information exchanges.

Our Teams are led by experienced Program Managers who take ownership and ensure customer commitments are satisfied and are communicated throughout the organization. They are our customer's single point communication conduit, ensuring the team moves together to meet the project goals.

Our processes are well documented and adhere to ISO 9001 quality standards. After sales support is maintained by our dedicated customer service department. They are a phenomenal group of seasoned RF professionals who maintain and support our products, even some that were fielded more than 30 years ago.

Most products are custom designs with low to medium volume production. When program requirements require higher volume, we enlist the support of our sister division Comtech EF Data located in Tempe, AZ. They are our corporate manufacturing center of excellence. This low-cost RF and Microwave manufacturing and test facility supports several of our high-volume product lines. They are one of the largest RF and Microwave manufacturers in Arizona.

Work with Comtech PST to design your next generation power amplifier. We welcome the challenge and will meet or exceed your expectations.

Contact our sales department to discuss your exact needs. We will help you create a specification that is a dependable solid state high power component for your project.



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