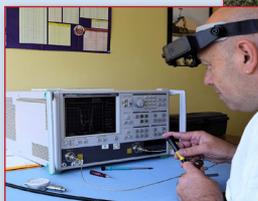
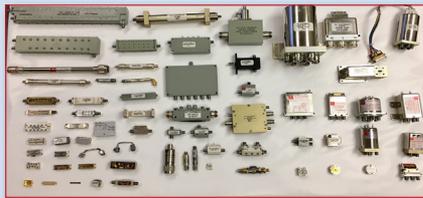


# FAB S and LAB S

## RLC Electronics: A 63-Year Commitment to Excellence in Passive Microwave Components



RLC Electronics is a classic example of the multi-generation family enterprises that helped create and sustain the U.S. microwave industry. Triggered by World War II, the U.S. government funded the development of technology and systems for radar, electronic warfare and military communications. This built the defense industrial base—companies such as GE, ITT, Raytheon, RCA—and these large firms created opportunities for entrepreneurial pioneers to supply the complex components needed by these systems. Alan Borck, a 1947 graduate of Rensselaer Polytechnic Institute who began his career at ITT, started RLC Electronics in 1959, the year after *Microwave Journal* was first published. His son Doug joined the company in 1978, followed by his grandson Jeff in 2011.

RLC Electronics designs and manufactures a wide-ranging portfolio of RF components developed for high performance, high reliability defense platforms—also well-suited for test and measurement applications. Highlighting the comprehensive product line are electromechanical switches and filters of all configurations, including cavity, microstrip, stripline, lumped element, tubular and suspended substrate. Myriad passive products complete the portfolio, including power dividers/combiners, couplers, hybrids, terminations, detectors, limiters and fixed or variable attenuators. High power and broadband versions of most products are available, an additional specialty of the company.

RLC encourages customers to bring their specific requirements and, with such a catalog and long heritage, RLC turns new designs quickly, supported by a dedicated prototype lab. The engineering team's experience averages 25 years per person and is complemented by the latest circuit and electromagnetic simulation software: HFSS, Keysight Genesys, PCFilt, Touchstone and internally designed tools. Using a consultative approach to product development, engineers work directly with customers to ensure timely communication.

RLC Electronics builds all products internally, sourcing purchased parts from U.S. suppliers. The capabilities at its 22,000 square-foot facility in Mount Kisco, N.Y., include assembly in a class 1000 clean room, machining, RF testing, environmental conditioning and qualification. RLC Electronics holds a Secret facility security clearance, AS9100D and ISO 9001:2015 certifications and is ITAR registered. It has the distinction of being the only switch manufacturer with products on the Qualified Product List of the U.S. Defense Logistics Agency.

To maintain its reputation for leadership, RLC Electronics continues to innovate. Its technology roadmap has several themes: 1) miniaturizing coaxial products while expanding the number of surface-mount designs, 2) extending the frequency coverage above 40 GHz (above 65 GHz for switches), 3) increasing power handling and 4) lowering cost by redesigning and reducing production time. To enable these changes, RLC is increasing the integration of its products, combining several technologies within a single package, and adding to its software tools to improve simulation accuracy and reduce development time.

RLC has an impressive set of customers. In defense, the list spans all the leading firms: BAE Systems, Boeing, General Atomics, Lockheed Martin, Northrop Grumman and Raytheon. In test and measurement, Keysight and Rohde & Schwarz are notable. However, the business is not restricted to the U.S., with products supporting Elbit Systems, IAI Elta, Indra, Leonardo and the defense ministries of allies.

63 years after Alan Borck started RLC Electronics, the company remains a successful, family run and globally renowned business, with a staff of some 40 committed to excellence. RLC fosters an environment of learning, opportunity and advancement for a team focused on customer satisfaction, growth and continued leadership in the RF/microwave components industry.

[www.rlcelectronics.com](http://www.rlcelectronics.com)