

# FAB S and LAB S

## KRYTAR: Celebrating 50 Years in the RF/Microwave Community



Thomas J. Russell, a broadband design expert who designed one of the first proprietary computer-aided engineering (CAE) tools, founded KRYTAR in 1975. KRYTAR designs and manufactures ultra-broadband mmWave, microwave and RF components and test equipment for both commercial and military wireless communications, radar, space and thermal vacuum applications. Russell has contributed to KRYTAR's success through a plethora of patented designs, including KRYTAR's first product, the Model 1816, a directional coupler operating from 2 to 18 GHz with 16 dB coupling. Model 1816 was the first commercial product designed using Russell's CAE program. KRYTAR designed and manufactured couplers for their first 18 years in business, then introduced their first power dividers in 1993. Over their past 50 years in business, the company has expanded the product line to include directional couplers, directional detectors, 3 dB hybrids, matched line directional dividers (MLDD) power dividers, detectors, terminations, coaxial adapters, bias tees, Butler matrices, Butlers with phase shift and monopulse comparators. KRYTAR's product family spans from DC to 110 GHz with plans to increase frequency as the industry grows.

KRYTAR products are designed and manufactured in the U.S, and they were awarded a multitude of quality certifications in 2009, which they still maintain. The corporation has comprehensive electrical, mechanical and test documentation standards and follows AS9100D standards, IPC-A-600 PCB workmanship, ISO 9001 quality management and MIL-STD-202 and MIL-STD-810 test methods. KRYTAR also offers environmental validation, includ-

ing temperature, vibration, shock, vacuum and radiation testing.

KRYTAR began offering space-qualified products in 2012 and has expanded its space product line since. Products manufactured for space and thermal vacuum applications undergo additional reliability and quality assurance inspections during all phases of manufacturing, evaluation and environmental testing. Parts, materials and processes are fully traceable from raw materials to top-level assemblies. Using materials optimized for extreme cold temperature operating environments, KRYTAR began offering components for quantum computing and space applications in 2016. As the industry moves to harsher environments and higher frequencies, KRYTAR is meeting each challenge and continues to design and manufacture new products to meet the growing needs.

KRYTAR is located in Sunnyvale, Calif., the center of Silicon Valley. It is a privately held company, which is becoming rare, and thrives on pillars of technical excellence and customer satisfaction. KRYTAR supports its customers with custom and COTS products available on short timelines. Whether designing wireless networks, serving the satcom industry, advancing defense systems or exploring space, KRYTAR delivers off-the-shelf and custom solutions designed to meet specific needs with precision, quality and reliability.

This year, KRYTAR is celebrating its 50-year anniversary and showing appreciation for clients' trust over the years, which has been built on KRYTAR's ability to meet challenges and deliver results.

<https://krytar.com/>