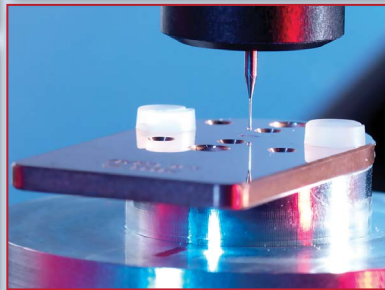


FAB S and LAB S

Flann Microwave: Unlocking the Power of Waveguide



Flann Microwave is celebrating 70 years of providing precision microwave components to the communications, security, radar, satellite, standards and research industries. Flann was founded in 1956 by engineers Fleming and Mann, and was based in Kingston-upon-Thames until moving 15 years later to its current location in Bodmin, U.K. From this location, Flann has grown into a trusted, recognizable brand across the microwave industry.

Flann Microwave manufactures passive waveguide components, subassemblies, calibration kits and instrumentation from 1 GHz to 1.1 THz. Flann has a robust manufacturing site with capabilities for design, analysis, machining, assembly, plating, electroforming and testing. Key instruments include HFFS modeling software, heat transfer analysis software, CNC mills, optical measurement systems and VNAs up to 220 GHz. Flann is capable of high volume production or custom-level production to suit all customer needs.

Flann serves a number of markets, including satcom and spaceflight, test and measurement, telecom, radar, automotive, research and academia, security, mining and aerospace and defense. Flann started serving the space market with hi-rel, TVAC-compliant components over 10 years ago, and supplies major customers including JPL, Airbus, RAL Space and more. Flann has components on LEO, MEO and GEO satellites and continues to serve the space industry through bespoke designs. Along with their spaceflight products, Flann manufactures metrology-grade calibration kits using their in-house micro-machining and fabrication plant, and other waveguide manufacturers utilize Flann metrology components to calibrate and verify

their own manufacturing processes. The Flann team has been working with the IEEE Standards working group since it was formed in 2008, and the interface drawing of the standard was produced by Flann mechanical engineers. As the telecom industry grows 5G, introduces 6G and begins to think about 7G, Flann is staying ahead of customer needs by introducing products into the THz frequency range. Flann takes pride in its ability to anticipate industry needs and provide custom and COTS products at critical moments.

In addition to the commercial sector, Flann has served the military market since its founding in 1956 and continues to do so with both components and full subassemblies. Recently, a U.K. Defense Prime contractor required an antenna for a very high-power directed energy application, capable of bringing moving targets to a controlled stop at a safe distance without collateral damage. Flann used their in-house electromagnetic, physical and multi-physics finite element analysis tools to model and design the product, successfully built and tested. Flann serves the military and defense markets through custom products designed and tested for harsh environments.

Flann continues to build on its legacy products and introduce new products to the market, including a new line of variable attenuators and new 33 to 330 GHz switches for load-pull systems and on-wafer testing for OEM systems, spaceflight and other critical applications. As the RF, microwave and mmWave industry forges ahead, Flann Microwave will continue to make a big impact with leading waveguide technologies.

Flann Microwave
<https://flann.com/>