

Castle Microwave provide mission critical components and services to all sectors of the market. With over 40 years experience we are able to support your project from Inception, through design to Manufacture and Testing.

**Tell us about your current application.
Would you like to meet with one of our Specialist Team to advise on your projects?**

**To book a meeting with one of our Technical Specialists, give Holly or Meghan a call on 01933 448808, or email us:
holly.gurney@castlemicrowave.com
meghan.gurney@castlemicrowave.com**



Aerospace



Chambers & EMC



Commercial Space



Communications & Broadcast



Data Networks



Defence



Transportation



Electric Vehicle Compliance Testing



Industrial



Medical



Oil & Gas



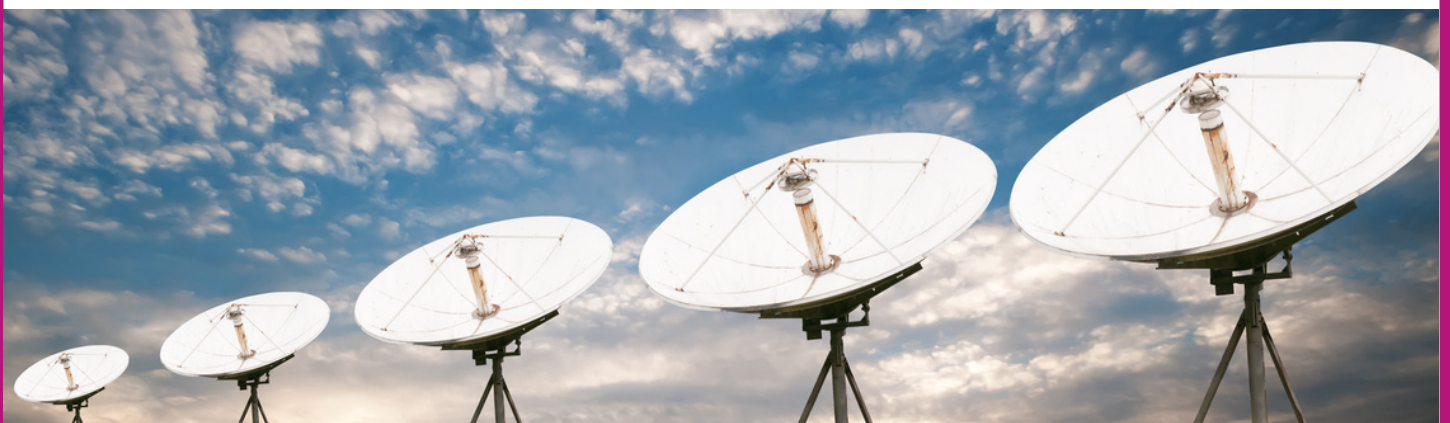
Power



Security



High Rel. Space



Spotlight on the dynamic duo digital marketing sisters at Castle Microwave



Starting with Castle Microwave in April 2022, Digital Marketing Apprentices Holly and Meghan work with a small team in our sales office in Northamptonshire. Their day to day role consists of creating meetings for our Technical Specialist Team. On Fridays they complete their lessons and college work, looking to complete their apprenticeship in December 2023.

In the evenings and weekends, Holly enjoys walking her dogs around her hometown, keeping active by going to power hooping classes, and visiting friends and family. She also enjoys baking, making a lot of fruit crumbles as the autumn weather sets in.

At the weekends, Meghan enjoys socialising with friends while shopping at her local retail park and going for bike rides. She recently went to Egypt for her 21st birthday and is currently planning her next adventure abroad with her long-term boyfriend.



HI-REL & SPACE



Castle Microwave has many years of experience in providing both components and solutions for Hi-Rel and Hi-Rel Space applications.

Our expertise ranges from specialised non-military communications equipment to Hi-Spec military communications satellites.

Contact us today for more information about the product range:

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MACOM™

MACOM's involvement with the aerospace industry goes back to the exciting initial developments of the early 1950s, when their products were placed in the unmanned probe Pioneer IV, which successfully launched in March 1959. As the industry evolved, MACOM continued to innovate and expand its product portfolio to support the developments and requirements of the Space and Hi-Rel markets.

Over the years, MACOM products have travelled on hundreds of space missions. Their parts have entered the solar system on the Voyager, touched down on Mars aboard the Pathfinder, played a crucial role in the relay satellites for the manned Moon landings and were part of the space shuttle landing systems. In addition to US space programs, they've also supported the satellite business in the UK, continental Europe and India.

To fulfill the dream of providing satellite communications, services and entertainment through high bandwidth LEO satellite constellations, there will be a need for whole batches of small, essentially disposable satellites that will be replenished on a regular basis. To enable this mass deployment, Space and Hi-Rel customers will need to drive the overall cost of each satellite down to a bare minimum. The time from 'concept to launch' will likely drop steeply, and the industry will see more adoption of newer technologies like GaN and SiGe that can deliver the performance requirements at the correct cost structures and volume.

To enable this to happen, MACOM are maintaining rigid control of the entire production/procurement process, guaranteeing that quality and reliability is assured.

MACOM can supply diodes, transistors, MMICs and hybrid components to standard requirements including:

- ESA / ESCC Specifications
- MIL-PRF-38534 Performance/General Specification for Hybrid Microcircuits
- MIL-PRF-38535 Performance/General Specification for Integrated Circuits
- MIL-PRF-19500 General Specification for Semiconductor Devices
- MIL-DTL-28837 General Specification for Radio Frequency Mixer Stages
- MIL-STD-883, MIL-STD-750, MIL-STD-202 Test Methods
- MMIC products can be supplied as bare-die, plastic encapsulated, or ceramic packaged, and can be screened for MIL-PRF-38534 Class K Space and Class H Hi-Rel.



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PRINCIPALS

Together with our industry partners, we are able to provide turnkey solutions for high-reliability requirements.



Ducommun's engineers have a history of working with both government/defence and commercial space applications. Because of their experience, they can offer a broad range of switching solutions for both communications link and redundancy applications.

Ducommun's RF coaxial space-qualified switches have been used in a variety of space applications where electrical performance, weight, size and reliability have been mission critical. Their expertise includes involvement in both S and K Level qualification testing and screening.



SPDT Switch Space Products

Ducommun manufactures high-quality, reliable, high-frequency SPDT switches that can operate from DC to 46 GHz with 55 dB minimum isolation. The DK series operates from DC to 40 GHz and uses a K connector. The DL series operates from DC to 46 GHz and uses a 2.4 mm connector.

Transfer Switches

Ducommun also manufactures transfer switches that can operate from DC to 46 GHz with 55 dB minimum isolation. The TK series operates from DC to 40 GHz and uses a K connector. The TL series operates DC to 46 GHz and uses a 2.4 mm connector.



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Maury Microwave offers an extensive line of precision Space Qualified TVAC test cables for use in satellite communications and other space applications. Their unique designs, special materials, and plating and coating processes, enable them to produce adapters that operate with optimum performance and reliability under the extreme conditions encountered in space. Maury Space Qualified adapters are available in right angle and end launch versions and can be provided in many waveguide size and connector configurations. Weight-saving designs, custom flanges and beadless versions for harsh radiation exposure are also available, with full band or optimized narrow band performance ranges. These adapters can be qualified under Group A/B/C environmental testing, including Thermal Shock, Vibration, Operating Temperature Extremes, and EMI — all tailored to your exact specifications.



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