

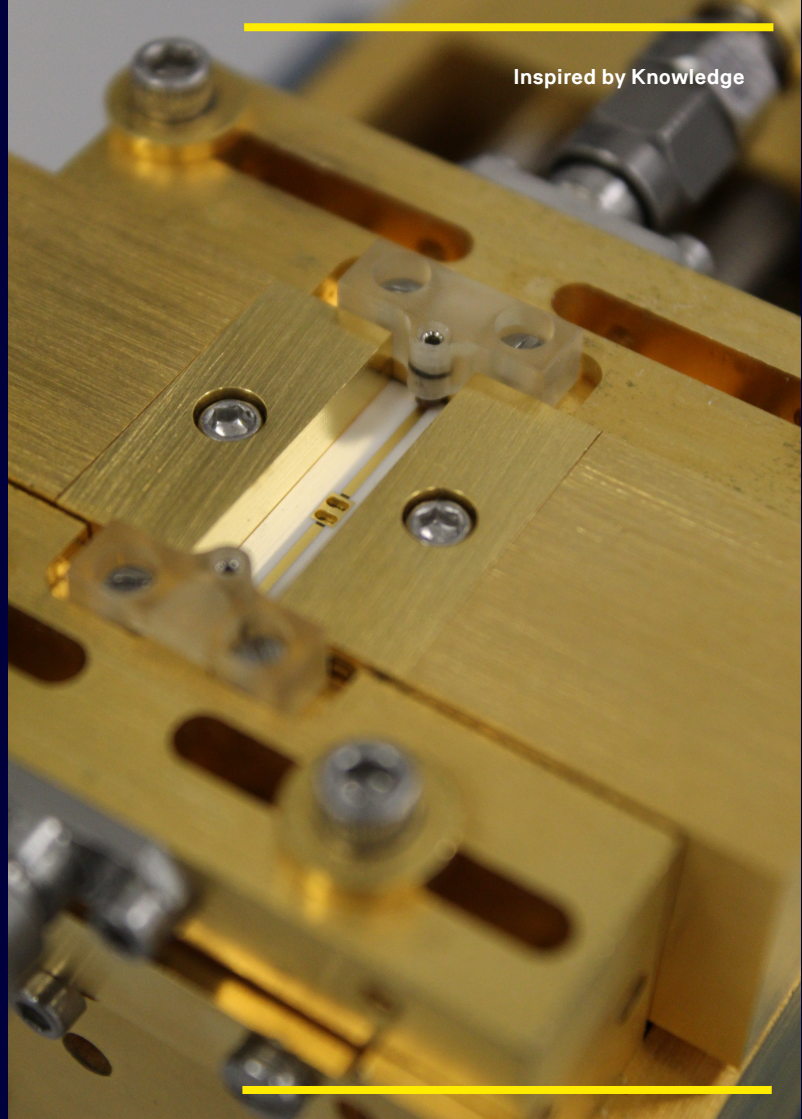
ALTER

Microwave laboratory

Experts in design, packaging and testing of high reliability components.

Main activities:

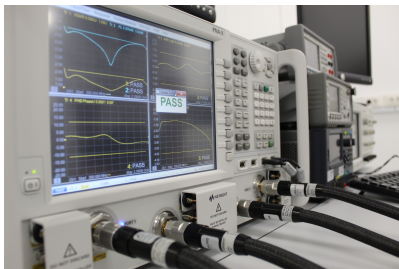
- EEE engineering, testing and procurement.
- Microwave design, packaging and test.
- Certification of equipment.



Engineering expertise

In- house design, manufacture, and test of:

- Text fixtures for solderless measurements.
- MW PCB boards with controlled impedance routing.
- Customize calibration kits for MW devices.
- Impedance matching networks.
- Complex test setups for electrical characterization.



Contact us

C/ Tomás A. Edison, 4 - 41092 Sevilla
Tel.: +34 95 446 70 50

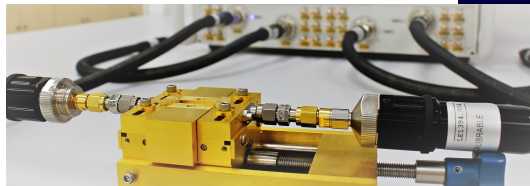
www.altertechnology.com

Test services

With a highly trained team of testing engineers we are able to offer a wide variety of microwave lab services. From the smallest passive part to the most complex integrated components, we achieve a high level of services and outstanding testing reliability.

Main test services:

- Characterization of multiport MW devices.
- On-wafer measurements
- Radiation Testing
- Burn-in and life tests.
- Temperature cycling.
- Thermal shock.
- HAST (pressure cooking).
- Humidity test 85/85.
- Vibration testing.



Packaging & assembly

All the capabilities required for the assembly and testing of MMICs.

Our expertise in packaging solutions spans the full product life-cycle: from design through prototyping, process optimization, product qualification, failure analysis, volume manufacturing and transfer to low-cost volume manufacture.

Our list of services covers a wide variety of activities:

- Die Attach: using epoxy or eutectic materials, our non-contact handling process for MMIC dies.
- FLip-Chip & Au Stud Bumping for bare die or wafer scale with a variety of sizes, materials and shapes.
- Wire bonding: Gold ball, Wedge-Wedge, Ribbon bonding with optimal wire bond length & loop profile