

Microwave & RF





Why GTK is the right choice for microwave and RF products

Quality

- › 100% of assemblies tested for continuity, open circuits, short circuits and contact resistance
- › Each production run is batch tested for VSWR and insertion loss using vector network analysers
- › Optional 100% performance testing available on request

Technical Expertise

- › Product specialists in both the UK and the Far East with many years' experience
- › Partnered with a leading manufacturer in Taiwan at the forefront of microwave and RF technology
- › Engineering experts to assist with design and production
- › Highly trained and experienced production operators and inspection teams

Manufacturing Volumes

- › Prototypes, pre-production samples and production runs manufactured in any volumes
- › UK facility geared towards low- to mid-volume production, along with "UK eyes only" requirements
- › Far East production facility excelling in production runs of mid-volume and upwards, giving you the benefit of economies of scale

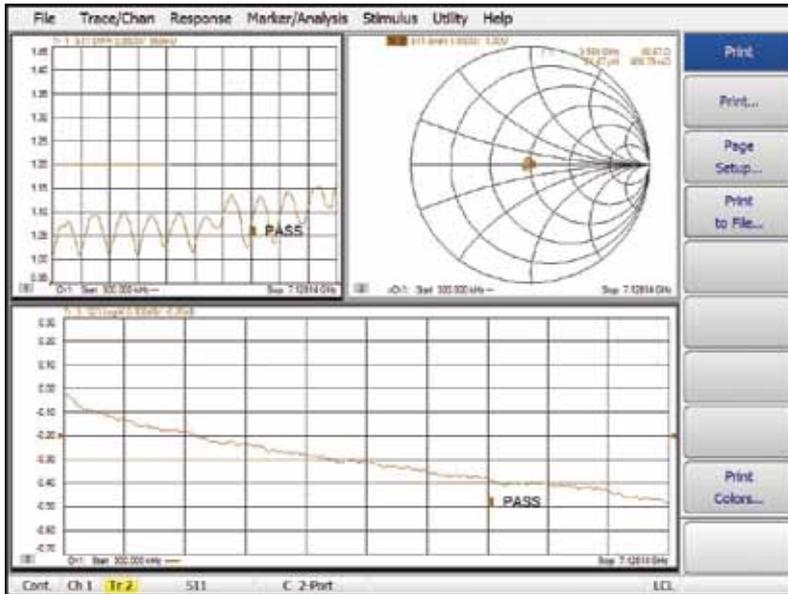
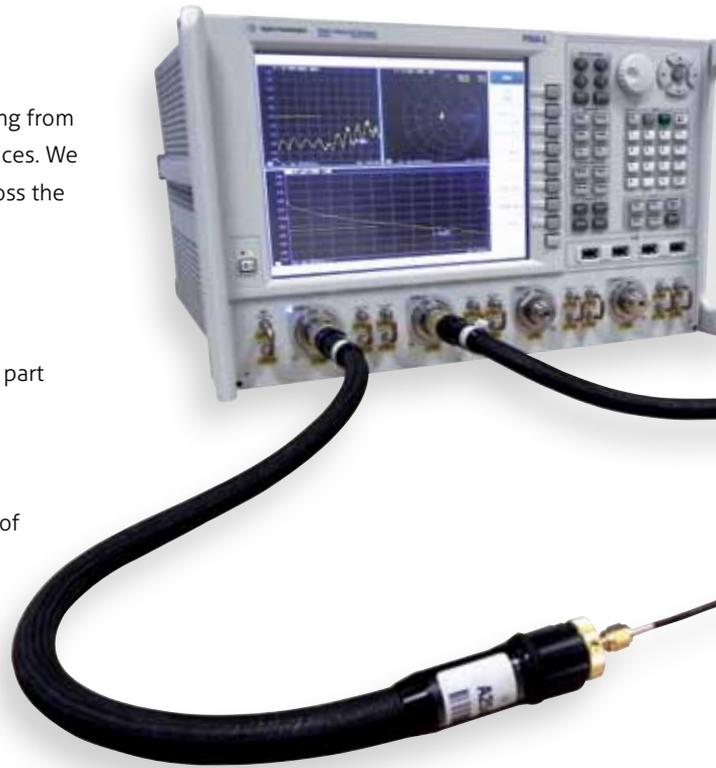
The combination of a broad product selection together with the highest quality standards, product knowledge and manufacturing capabilities results in a comprehensive package of microwave solutions to meet any requirement.

We can offer a full build-to-print service, where we manufacture to your exact specifications for product and performance. Alternatively, our team of technical experts can assist you with selecting the right product for your specific application. They can help with connector selection, cable specification and testing parameters to ensure that the final product meets your performance requirements.

Microwave and RF products are used in many diverse applications ranging from complex networking products to high-end military communications devices. We offer a wide selection of cable assemblies, connectors and adaptors across the range of product families.

Quality Is Key

We understand that product quality is critical and this is built into every part of our manufacturing process. All microwave and RF products, whether manufactured in the UK or Far East, will be 100% tested for continuity, short circuits, open circuits and contact resistance. Additionally, every production run will be batch-tested for insertion loss and VSWR on one of our vector network analysers.



Network analysers are used to test microwave cable assemblies up to 110GHz in frequency. This enables us to ensure that the goods will function perfectly, regardless of the specification of your assemblies. We are able to provide test reports with initial samples, each batch, or even each cable if required.



Military / COTS

- Bomb jamming devices
- Direction finding
- Tactical communications
- Audio/video surveillance



Communications & Broad

- Wireless broadcast systems
- Inter-vehicle communications
- Radio
- Wirel

Cable Assemblies

We can manufacture cable assemblies using almost any combination of connectors, along with a wide variety of cable types. These include standard flexible cable for simple applications; flexible semi-rigid cable that is hand-formable into basic shapes; and machine-formed semi-rigid cable that permanently holds its shape. This variety allows you to choose the best solution for your requirements in terms of size, shape and performance.

We also utilise high-precision cutting and wire preparation equipment, in tandem with highly skilled operators and dedicated RF and microwave test machinery to produce high quality, high-performance assemblies for all markets.



Customisation

Every single RF and microwave cable assembly we supply is customised. This may range from a specific length or combination of connectors and cable, right through to adapting the connector itself to suit a unique application.

Whether it's a minor modification or a completely custom solution, we can assist you with the design, component selection and manufacture of the final assembly, so that it fits into your product design.



Cast

communications
ess camera systems

Test & Measurement

- Electron microscopy
- Phase-stable cables
- Infrared imaging
- Spectrometry systems

➤ Data logging systems
➤ Industrial intercom

Connectors & Adaptors

We offer an extensive range of connectors and adaptors and can provide all connector types from the following size families:

- > Standard (max. frequency 18GHz)
- > Miniature (max. frequency 10GHz)
- > Subminiature (max. frequency 67GHz)
- > Microminiature (max. frequency 110GHz)
- > Ultraminiature (max. frequency 6GHz)



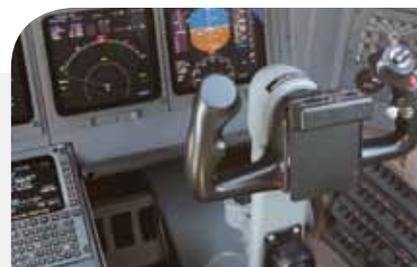
All connectors are available in PCB-mount format or as part of a cable assembly and have 30µ" gold plating on the centre contact. Our adaptors are available in either in-series or inter-series configurations.

Our range of connectors allows us to support maximum frequencies of up to 110GHz. This means that we are able to supply products for many different applications across a broad range of markets.



Industrial

- > Utility smart metering
- > Data transmission



Aerospace

- > Radar systems
- > Aircraft communications
- > Collision avoidance
- > Air traffic control



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