

High-performance, customised solutions

Markets served



Aerospace & Defence



Telecommunications Infrastructure



Space



Critical Communicatons



4 sites (3 UK, 1 USA)

Sedgefield, County Durham, UK

mmWave design, manufacture and test

- 13,000 ft² Total size
- 2,000 ft² Clean rooms
- 2,000 ft² Engineering
- 5,000 ft² of ESD safe work area for sensitive designs

Leeds, UK

RF design and assembly for Aerospace & Defence and Critical Communications

- 2,100 ft² Total size
- 1,050 ft² Engineering
- 700 ft² of ESD safe work area for sensitive designs

Manchester, UK

SatCom design centre

- 2,300 ft² Total size
- 1,200 ft² Engineering
- 1,100 ft² of ESD safe work area for sensitive designs

Salisbury, Maryland, USA

RF assembly and test for Critical Communications

- 16,000 ft² total size
- 5,000 ft² under temperature control
- 3,000 ft² of ESD safe work area for sensitive designs

Quick facts

DESIGN

300MHz → 300GHz

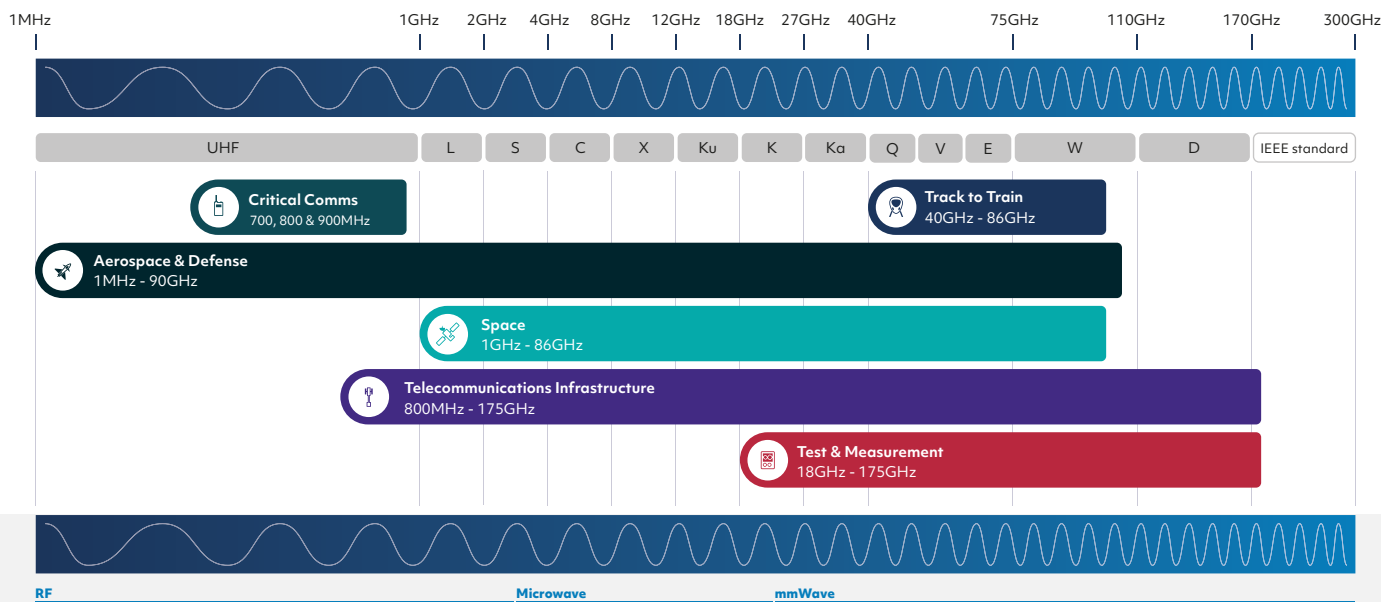
MANUFACTURE

300MHz → 115GHz

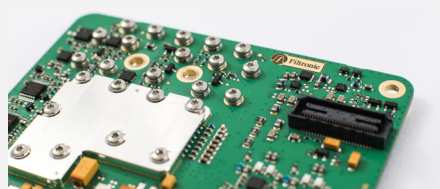
TEST

300MHz → 140GHz

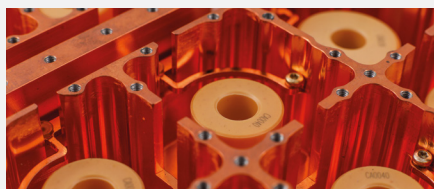
Sector expertise by frequency band



Product and service specialties



Transmit and receive



Passive & active RF solutions



Integrated subsystems



Hybrid manufacturing services

Manufacturing capabilities

- Automated Epoxy Dispense and Die/Component Attach
- Automated Wire Bonding (Ball and Wedge)
- Air cavity and Encapsulation Packaging
- Hermetic Sealing
- Epoxy overmould
- IR vacuum reflow soldering & Convectional 3 stage reflow oven
- Laser marking and singulation

Test facilities

- Environmental stress testing with the latest temperature and humidity chambers
- RF analysis test equipment coupled with automated test software
- Network Analysis up to 90GHz
- Discrete Signal Analysis up to 114GHz, (Spectrum Analyzers, Power meter)
- Noise Figure Analysis up to 90GHz

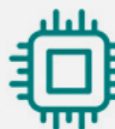
Inhouse capabilities



RF systems engineers



Mechanical design



MMIC specialists



Process engineers



Filter specialists



Software and firmware experts



Electronic & PCB layout designers

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