Filtronic

Filtronic is a state-of-the-art designer and manufacturer of RF, microwave and mmWave products for telecoms, medical and aerospace/defence applications.
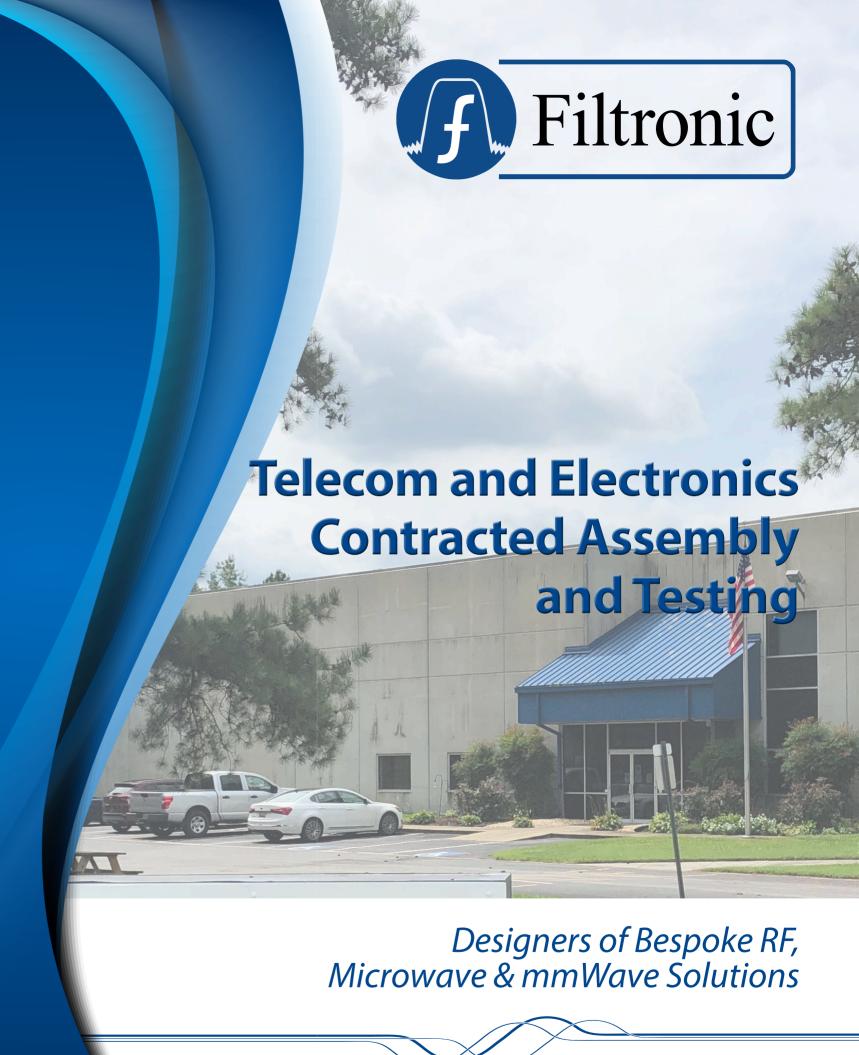
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ISO 9001

Rev 1.0

Filtronic

Telecom and Electronics Contracted Assembly and Testing

Designers of Bespoke RF, Microwave & mmWave Solutions

www.filtronic.com

Contract assembly & test services

Filtronic offer competitive contract assembly and test services for the following sectors:

• Public Safety
• Commercial Telecoms
• Defence & Aerospace

Enabling clients to take advantage of our industry-leading manufacturing processes and test facilities. By removing cost from their operations, we also reduce time to market and improve quality all without any additional overheads or purchasing capital equipment.

Overview of services

• Quick-turn electronics assembly
• Equipment build-up (including rack, stack and commissioning)
• Equipment and operational testing
• Repair depot with embedded process audit

Robust end-to-end process control

Equipment:

• Serial number ID validation test for comprehensive traceability
• Automated testing process
• Port and connector test points to ensure strict test protocols
• Calibration control and scheduling

Personnel:
• Operators uniquely identified to allow performance monitoring.
• Role-based authorization allowing only trained operators to run specific workflow sequences

Material:
• Batch numbers/Job numbers/Sub-assemblies & component identification

Quality Control:
• Audit scheduling and RMA tracking

Logistics:
• Accommodations for end-client labelling and logistic requirements including invoice/packing slip/palletization/serial number and direct data uploading to client systems

Advanced quality metrics and reporting:
• Web-based real time reporting
• Statistical analysis in simple to use interface
• Yield/WIP/Shipment/Output monitoring in real-time

Assembly and test facilities:

• Warehousing and storage for finished goods
  ◦ 20,000 ft^2 under temperature control
  ◦ 5,000 ft^2 of ESD safe work area for sensitive designs.
• Environmental stress testing with the latest temperature and humidity chambers
  ° Thermotron™ temperature and humidity chamber volume of 1450 in^2
  ° Test Equity™ temperature chamber volume of 1300 in^2
• RF analysis test equipment coupled with automated test software
  ° PIM chamber for telecom device testing (700, 800, 900, 1900 & 2600 MHz)
  ° Network Analysis up to 8.5GHz
  ° Discrete Signal Analysis up to 18GHz, (Sig Gens, Spectrum Analyzers, Power meter)
  ° Noise Figure Analysis up to 3GHz

Business systems and program management

Our robust web-based manufacturing and process control system (MARS) ensures real-time organization-wide access to material traceability, inventory management, WIP tracking, SPC, yield reporting and on-time delivery.

Bespoke mmWave and Microwave Designs

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