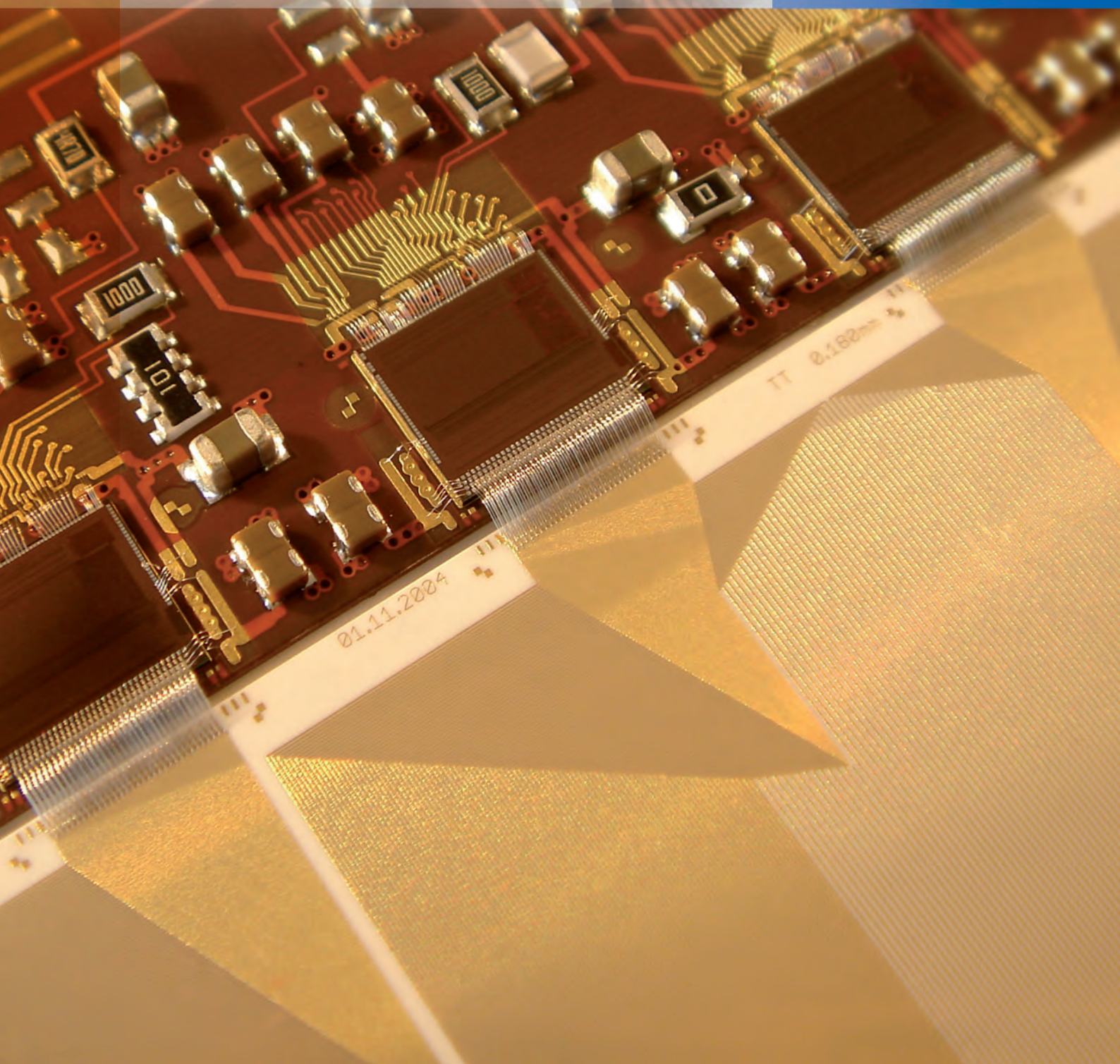


Sophisticated microelectronic –
substrates, assembly, packaging, test



Competent. Precise. Reliable.

«To be good at big things
you need to get
the small things right.»



Where innovation meets dedicated customer focus

Cicor Microelectronics is the leading manufacturer of sophisticated microelectronic, including circuit boards (thin and thick film), assembly, packaging and test/ screening. Our innovative technologies enable us to realize customer-specific product solutions of the highest level.

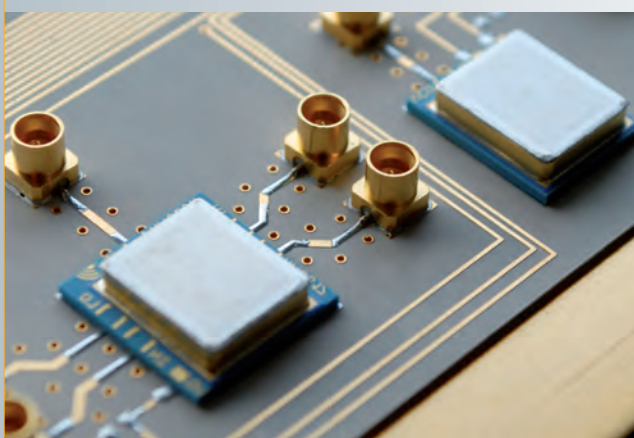
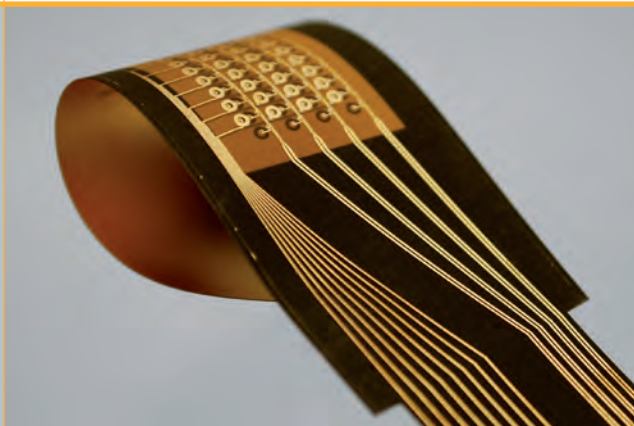
Our expertise list in goal-oriented, relevant and individual advice, together with development and professional manufacturing capabilities covering a wide range of applications. We offer the exact infrastructure needed to bring your complex microelectronic ideas and concepts to fruition.

We work closely with you to develop optimum solutions. We also offer:

- Highly specialized technologies for thin- and thick-film applications
- Availability of all assembly and interconnect technologies
- Fast production of prototypes
- Delivery of tested and qualified component modules

Focus on future-oriented solutions

Our aim is to transform innovative concepts into market-ready products. We focus intensely on our clients' requirements, continuously develop and improve existing technologies and orient ourselves towards new trends. This enables us to guarantee the highest level of manufacturing processes and convincing product solutions.



Decisive quality

Quality is the ultimate factor which decides whether or not a product will be successful in the market. This is why quality is top on our priority list. By consistently focussing on the highest possible quality – and complying with all relevant international norms and standards – we can guarantee the maximum reliability and precision, as well as the greatest possible durability.

Cicor Microelectronics is certified under the following standards: ■ DIN ISO 9001 ■ ISO TS 16949

■ EN 9100 ■ ESA PSS-01-606 ■ KTA 1401

Our manufacturing is governed by the following norms:

■ MIL-STD 883 ■ MIL-PRF 38534 ■ ESA PSS-01-60 / ECSS-Q-60-05



Greatest possible reliability

For more than 25 years experience has proven what works. By skilfully fusing knowledge gained through experience with new insights and technologies, Cicor Microelectronics develops products today that already fulfil tomorrow's requirements.

We are your flexible, fast-reacting partner for technologies and solutions that demand a high degree of miniaturization, extreme precision, excellent long-term stability and usability in difficult environments.



Wide presence

The clientele served by Cicor Microelectronics extends well beyond Europe. We aim to create close, trusting and long term client relationships. Therefore it is important for us to be there for you, locally as well as globally, with personal contacts where you need them. With our highly skilled technicians and process engineers, we also offer maximum expertise in microelectronics.



Cicor Microelectronics

We offer you a comprehensive service portfolio with various levels of production depth. Our processes range from technology development to the manufacturing of complex components and modules.

Development

- Technology consultancy/development
- Feasibility analyses
- Component group development
- Substrates/modules qualification under ESA and MIL standards

Substrate manufacturing

Thin-film technology

- Thin-film circuits with integrated resistors and couplers
- Copper thin-film circuits for high-performance applications
- High precision, high resistance resistors / resistor networks
- Multilayer circuits on ceramic
- Copper-filled via circuit boards
- Flexible multilayer circuits with ultra-high resolution ($<10 \mu\text{m}$)
- MEMS

Thick-film technology

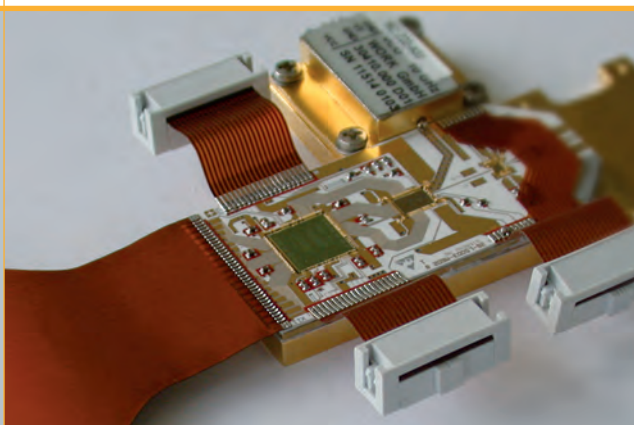
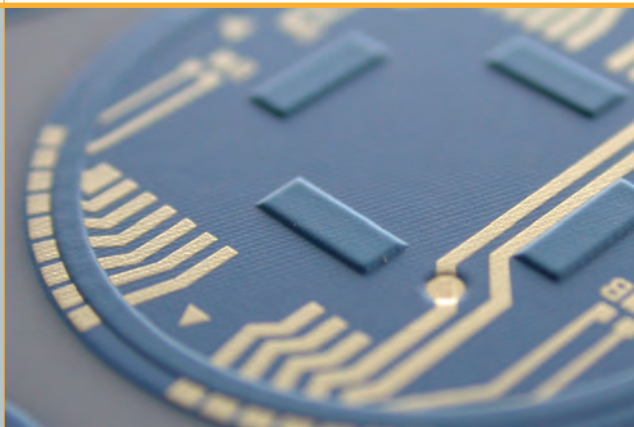
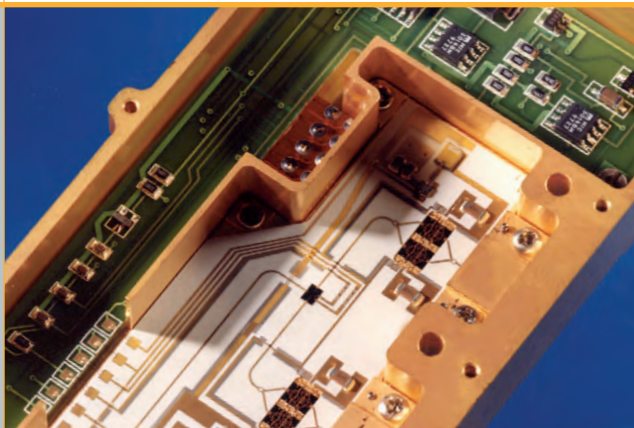
- Various substrates (e.g. Al_2O_3 or AlN)
- Various conductor materials (bondable and solderable)
- Printed resistors (trimmed active/passive)
- Etched structures (down to $40\mu\text{m}$)
- Multi-layer circuits, DC and RF

Microelectronics assembly

- Assembly mounting on ceramic, glass and PCBs
- Component/component group population (all available components)
- Die attach/COB/Flip-Chip/MMICs
- Wire/ribbon bonding

Packaging

- Circuit protection (e.g. passivation, glob-top or conformal coating)
- Hermetic housing (metal, ceramic)
- MEMS/RF MEMS packaging
- Client-specific housing concepts
- Module mounting including test and screening



Industries and segments

- Aerospace/defence
- Telecommunications
- Industrial
- Medical technology
- Sensors
- Optoelectronics
- Automotive
- Diagnostics



Application examples

- Satellite technology
- Radar electronics
- Cockpit electronics
- Positioning sensors
- Blood sugar sensors
- Medical implants
- Respiratory systems
- Hearing aids
- Pacemakers
- Building detectors
- Camera systems
- Print Heads
- Particle detectors
- Optical sensors
- Radio communication networks
- Navigation systems
- Control assemblies in the energy sector, solar technology
- And other demanding applications



«The future is linked
to the experience and
expertise of the past.»

Global and local
presence

**Cicor –
the dynamic, high-growth technology group**

Cicor worldwide

Cicor is a Swiss group of leading companies in the electronics industry. It is organized into four divisions: Printed Circuit Boards (PCB), Microelectronics (ME), Electronic Solutions (ES) and Asia. The group's companies provide complete outsourcing services and a broad range of technologies for the manufacture of highly complex PCBs, hybrids and electronic modules. With around 1200 employees in 11 production sites in Switzerland and abroad, and more than 20 representative offices worldwide, the group supplies high-quality custom-made solutions to its clients all over the world.

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