



ELECTRONIC CONTROLS

Astrodyne
Now you have power.



ELECTRONIC CONTROLS

Engineered product solutions for demanding applications

Astrodyne is an engineering solutions firm specializing in cost-effective designs that accelerate product development through innovation and experience. Astrodyne's global engineering staff can assist with the design and implementation for your applications with design and manufacturing locations in the USA and China.

Our experienced engineering staff offers a wide variety of control design expertise to turn your vision into reality. We work closely with the customer to design, test and support new electronic control projects from conception through final production. Our dedicated engineering department will support and enhance your control over the life of the product.

Key areas of expertise include:

Hardware (Analog and Digital): Extensive experience in motor control electrical circuit design, engineering analysis and design for manufacturability.

Embedded Software: Broad libraries tailored to the specific needs of your project and designed in house.

Mechanical: Expertise in electronic packaging and injected plastics.

PCB Design: Skilled in PCB layout and schematic capture using the latest tools.

Compliance: Expertise in designing for EMC compliance and managing projects through the certification process for CE, UL/CSA and MIL Standards.

Prototyping: Modeling, fabrication, assembly with extensive test fixture development by highly skilled technicians.

Astrodyne serves the foodservice equipment, HVAC, automotive and various industrial markets with custom control solutions for our OEM customers that range from simple temperature to complex multi-function controls systems and intuitive touch screen displays.



Experienced design and engineering teams coordinate closely with in-house production and testing personnel at our Norristown, PA.



Our wholly owned RoHS compliant production facility in Kunshan near Shanghai, China provides a cost-effective solution for delivering high volume commercial products, as well as flexibility for build-to-print manufacturing.



Astrodyne Shanghai, CN
• Asia/Europe Power Supply Sales
• Manufacturing
• Distribution
• Supply Chain Management

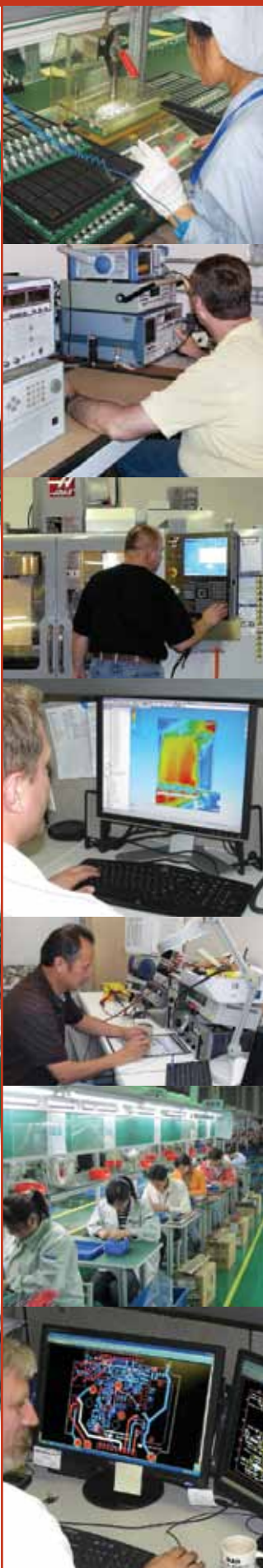
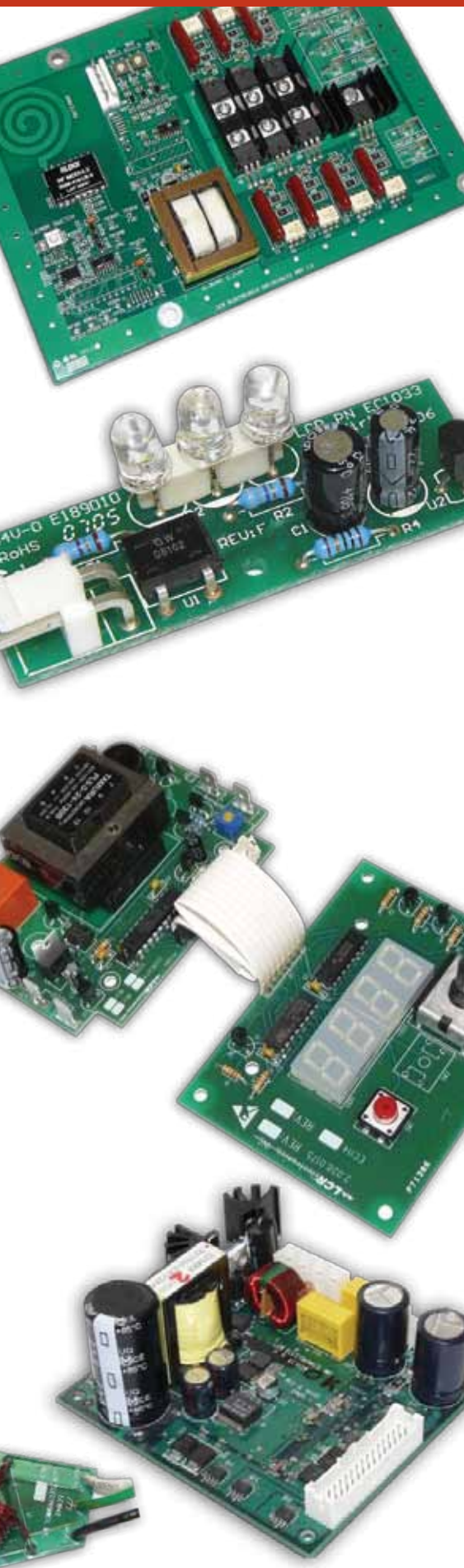
INTEGRATED TO MAXIMIZE RELIABILITY.

The benefits of working with our vertically-integrated organization holds value for both our contract manufacturing customers and those requiring custom production units. Experienced design and engineering teams coordinate closely with in-house production and testing personnel at our facilities. Power supply, electronic controls and EMI filter design is integrated to offer maximum performance.

- Prototype & Pilot Production Runs
- Certified Soldering
- Shielded EMC Test Enclosures
- Fabrication & Metal Forming
- In-house UL & European Certification
- In-house environmental testing



More power to you.



Additional Products & Services from Astrodyne



Astrodyne operates state of the art EMI test facilities for pre-compliance testing of customer's products and systems. Our design and application engineering teams provide expert engineering support to bring customer's equipment into compliance and to market quickly and proficiently.

- Single Phase EMI Filters
- Three Phase EMI Filters
- IEC Inlet Filters
- DC EMI Filters
- Inverter EMI Filters
- Medical Grade EMI Filters
- Commercial & MRI Shielded Room Filters
- Commercial Communication Line Filters
- Appliance and Washing Machine Filters
- Custom Commercial Filters
- Telecom EMI Filters
- Military EMI Filters-Custom and COTS
- Military EMI/HEMP Shielded Room Filters
- Military EMI/HEMP Communication Line Filters
- Suppression Components
- PFC Coils - Three Phase Line Reactors



Integrated to maximize reliability.

- Prototype & Pilot Production Runs
- Certified Soldering
- Shielded EMC Test Enclosures
- Fabrication & Metal Forming
- In-house UL & European Certification
- In-house environmental testing

POWER SUPPLIES



Military

- High reliability ruggedized AC/DC and DC/DC COTS brick power supply modules from 50-1000W incorporating Insulated Metal Substrate construction
- Military and Commercial Avionics Transient, EMC and shock & vibration standards conformance
- Operating temperature range options of -55°C to 100°C with no derating
- Exceptional demonstrated MTBF
- Numerous options to conform to the most challenging performance requirements



Industrial

- Power levels ranging from <1 to >2000W
- Output voltages from 3.3 to 54V
- AC and DC input versions
- Wide temperature options for operating ranges from -55° to 100°C
- Packages to meet industry standards for shock & vibration



Medical

- Power levels ranging from 1 to 600W
- Output voltages from 3.3 to 54V
- Class I and Class II AC input products for hospital and home use
- DC input models for vehicle powered medical device applications
- IEC 60601-1 3rd Edition Certifications – MOPP and MOOP
- Low leakage current models – BF and CF
- IPX1 and IPX2 rated enclosures for home use medical products
- Dual ISO UL registered 9001:2008 and 13485:2003 facilities

The Power of Astrodyne.

Power-up with our expanded technologies, engineering support and global manufacturing. The addition of the RO Associates, Jerome Industries, LCR Electronics, Radius Power and Filter Concepts brands to the Astrodyne family has expanded our extensive line-up of standard and custom solutions. We've long been known for our experience, personal service and creative thinking...now you'll find even more ways to help you solve your demanding power challenges.



Medical Safety including EN60601-1 3rd edition, class 1 and class 2, type BF and CF compliance MIL STDs 461, 704, 801, 1275 and RTCA DO-160F AC input frequency, harmonics, and emissions compliance



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