

## Epsilon Electronics- Driving Innovation in Product Manufacturing



[www.epsilonelectronics.in](http://www.epsilonelectronics.in)

[info@epsilonelectronics.in](mailto:info@epsilonelectronics.in)



# About Us

**Epsilon Electronics isn't an option, it's the solution.**

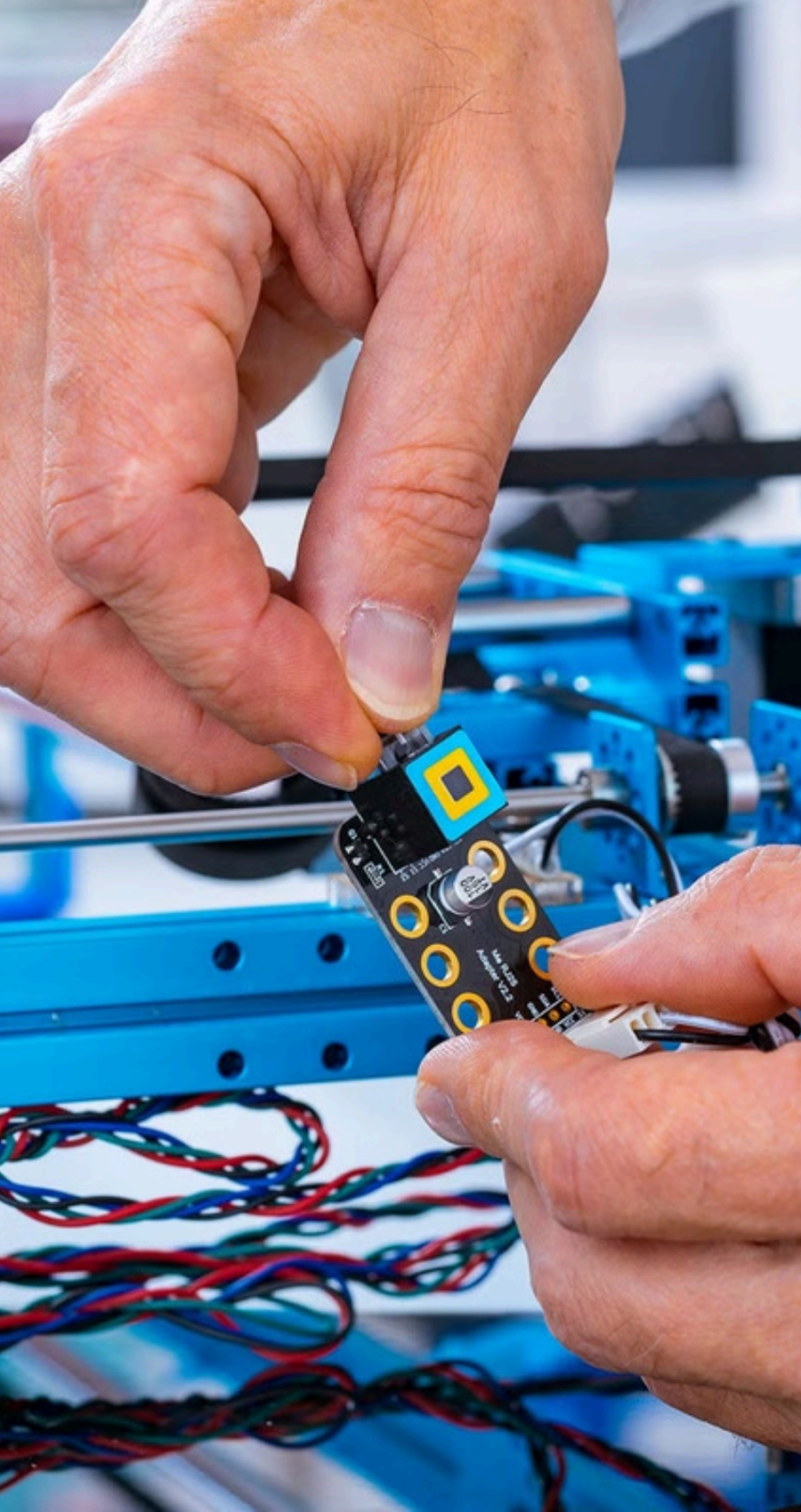
Welcome to Epsilon Electronics, a leading provider of innovative electronic solutions for businesses and individuals alike.

Our mission is to create cutting-edge electronics that meet the needs of our customers, whether they are looking to streamline their operations, enhance their productivity, or simply enjoy the latest and greatest gadgets.

We believe that quality should never be compromised, which is why we only use the highest-quality components in our products. From durable materials to state-of-the-art hardware and software, everything we create is built to last and perform at the highest level.

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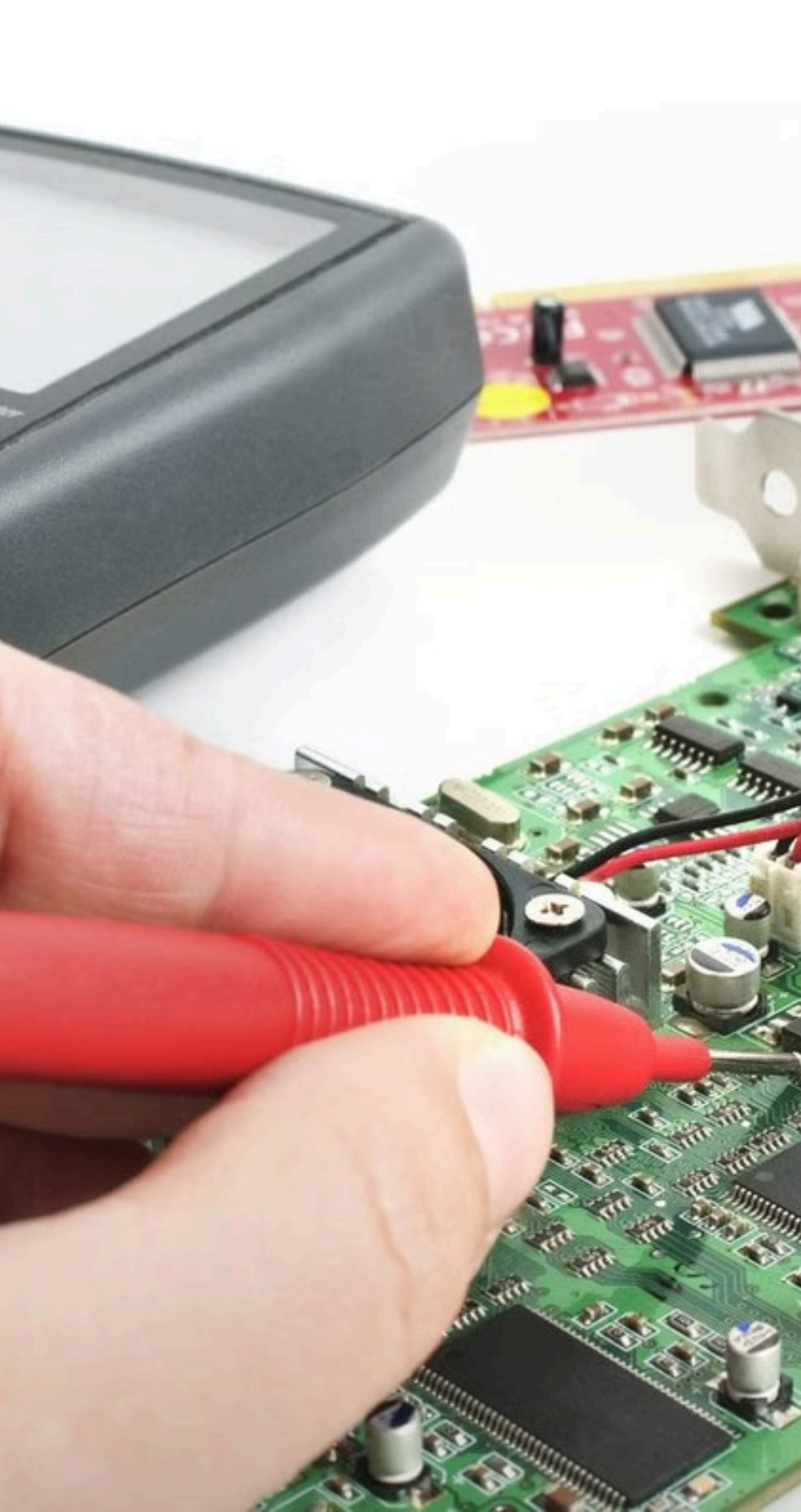


**Epsilon Electronics primarily focuses on providing Manufacturing for the domains like**

- **Healthcare**
- **Automotive & Transport**
- **Audio & Video**
- **Wearables**
- **Wireless connectivity**
- **Home Automation**
- **Medical Devices**
- **Agriculture**
- **Entertainment**

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**Epsilon Electronics provides a range of core solutions that includes**

- **BOM Sourcing**
- **Stencil Printing**
- **SMT Assembly**
- **Through Hole Assembly**
- **BOX Building**
- **PCB Designing**
- **Testing & Certifications**

**Aims to provide a one-stop solution for all product manufacturing needs.**

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# Our Turnkey Manufacturing Workflow



## Requirement Gathering & Analysis

Understanding client needs, specifications, and design requirements.



## Material Procurement

Sourcing high-quality materials from trusted vendors, adhering to strict quality control measures.



## Production Planning

Scheduling the manufacturing process efficiently, taking into account production capacity, lead times, and available resources.



## Manufacturing Execution

Experienced technicians utilizing state-of-the-art equipment to fabricate, assemble, and test components according to the established design.



## Quality Control & Inspection

Stringent quality inspections at every stage to ensure each component and finished product meets the highest standards.



## Packaging & Labeling

Products are packaged and labeled according to specifications, ensuring proper branding and identification.



## Shipping & Logistics

Products are shipped to the client's location via reliable logistics partners, ensuring timely and safe delivery.

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# Manufacturing Department Structure



## Production Planning

This team schedules production, forecasts demand, and ensures resources are available to meet targets.



## Process Engineering

These engineers design and improve manufacturing processes, ensuring efficiency, scalability, and high product quality.



## Manufacturing Operations

This team executes the production plan, manages assembly lines, and maintains product quality.



## Quality Assurance

They make sure products meet the highest quality standards.



## Maintenance and Facilities

This team maintains and optimizes production equipment, machinery, and infrastructure.



## Supply Chain Management

This team manages procurement of raw materials, inventory control, and timely logistics.



## Continuous Improvement

This team drives innovation by finding and implementing ways to improve processes.



## Production Support

This team provides technical assistance, training, and troubleshooting to manufacturing personnel.

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# Manufacturing with Maximum Observation



## Temperature

Monitoring temperature levels to ensure optimal operating conditions for equipment and processes.



## Humidity

Controlling humidity levels to prevent corrosion, condensation, and other environmental issues.



## Air Quality

Monitoring air quality parameters like dust, particulate matter, and gases to maintain a safe and healthy working environment.



## Lighting

Optimizing lighting levels for improved visibility, energy efficiency, and worker productivity.



## Noise Levels

Controlling noise levels to ensure a comfortable and safe working environment for employees.



## Vibration

Monitoring vibration levels to prevent damage to equipment and ensure smooth operations.



## Pressure

Maintaining optimal pressure levels for various processes and equipment.



## Dust and Particulate Matter

Controlling dust and particulate matter levels to protect equipment and employee health.



## Chemical Exposure

Monitoring chemical levels to ensure a safe working environment and compliance with regulations.



## Fire Safety

Implementing fire safety measures and monitoring fire suppression systems.



## Security

Implementing security measures to protect personnel and equipment from unauthorized access.

# Assembly Process Workflow



# Vendor Selection: The 10C Rule



## Commitment to Quality

Vendors consistently deliver high-quality products and services, meeting high standards of workmanship.



## Consistent Performance

Vendors deliver products and services on time, within budget, and meet agreed-upon specifications.



## Cost-Effectiveness

Vendors offer competitive pricing and manage resources efficiently for value for money.



## Financial Stability

Vendors have a healthy financial track record, ensuring long-term stability and reliability.



## Effective Communication

Vendors maintain transparent communication channels, promoting trust and collaboration.



## Control of Internal Processes

Vendors ensure consistent product quality and efficient operations with strong internal process control.



## Corporate Social Responsibility

Vendors operate ethically, considering environmental and social impacts in their business practices.



## Company Culture

Positive company culture fosters a dedicated workforce, promoting teamwork and customer satisfaction.



## Competency and Expertise

Vendors possess the technical knowledge and experience to deliver high-quality products and services.



## Capacity and Scalability

Vendors adapt to changing demands and scale production efficiently to meet increasing needs.

# Manufacturing Defects: Identification & Mitigation Process



# Products Under Epsilon Electronics Manufacturing Facility



CXL Instrument

Scope: Turnkey



Electronic Pipette

Scope: Electronics



Thermostat

Scope: Turnkey



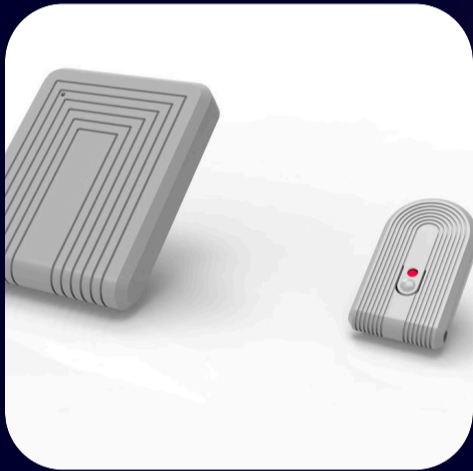
Air Purifier

Scope: Electronics



Surgical Headlight

Scope: Turnkey



BLE Beacons & Gateway

Scope: Turnkey



Footrax

Scope: Turnkey



12 Lead ECG

Scope: Electronics



Infusion Pump

Scope: Electronics



Infusion Pump

Scope: Electronics



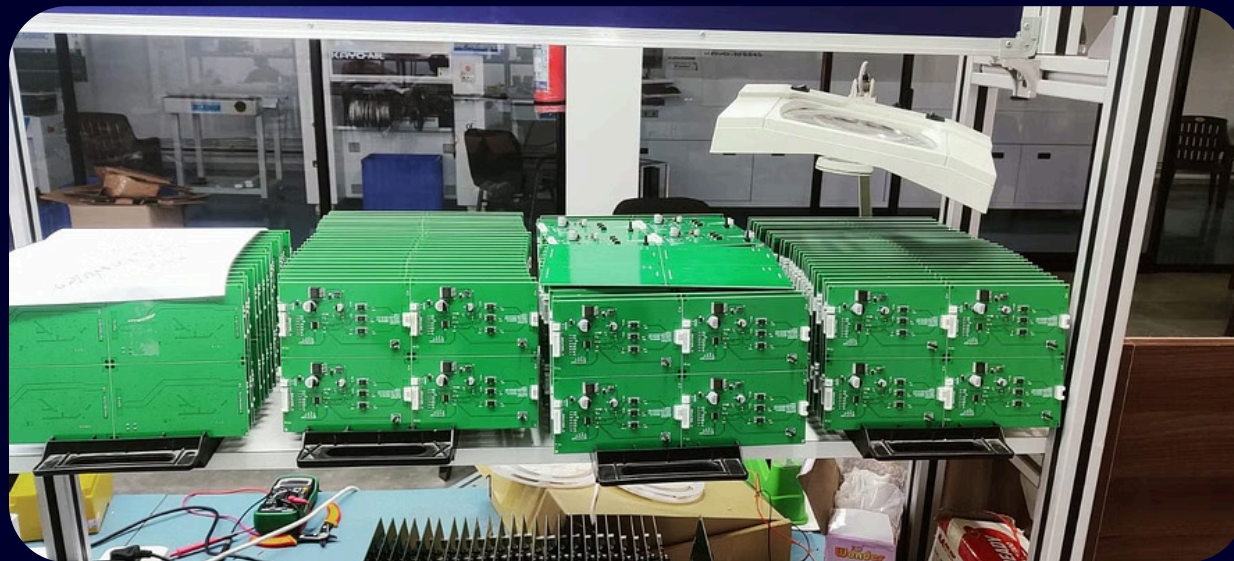
Water Purifier

Scope: Electronics

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# Production Samples



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# Manufacturing Certifications



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**079-4800-2842/+91-9879626181**

**Corporate:**

**Epsilon Electronics, B-503, Amrapali Lake View,  
Opp Alpha One Mall, Vastrapur, Ahmedabad,  
Gujarat-380006, India**

**Manufacturing Unit:**

**Epsilon Electronics, E-7+8/2, GIDC Electronics  
Estate, SECTOR-26, Gandhinagar-382028,  
Gujarat, India**

