

# Innovation History Drives the Future

Founded in 1935 to industrialize the production of ferrite, a newly invented magnetic material that enabled smaller, lighter radio receivers.

Recognized among the world's top innovators, driving development of future technologies at the core of innovation, and poised to foster the AI ecosystem.



## From Legacy to Leadership

Continual innovation with notable achievements, including magnetic tape, high-fidelity music cassette tapes, multilayer inductors, and thin-film magnetic heads.

### 1937

**Produced and commercialized** the first ferrite core for wireless communication units and radios. Subsequently adopted for use in black and white TVs, opening the door to the information age.

### 1980

**Created** the world's first multilayer chip inductor, a cornerstone component in miniaturized electronics like PCs and smartphones.

### 2024

**Developed** material for next-generation solid-state battery with an energy density of 1,000 Wh/L to power wearable devices.

## Purpose-Driven Progress

Innovation and responsibility are complementary engineering fundamentals grounded in materials science, process control, and long-term product reliability.

- **Innovation at the component level:** Magnetic, ceramic, and film technologies advances improve electrical performance, thermal behavior, and power density
- **Design and manufacturing:** Product development incorporates energy efficiency, material selection, process repeatability, and regulatory compliance

### 2026

Received 12th recognition as Clarivate Top 100 Innovator

### 2025

- ▶ **Listed** as CDP 'A List' company for the 6th time for leadership in corporate transparency and performance on water security
- ▶ **Platinum rating** in sustainability assessment by EcoVadis
- ▶ **"A" ranking** in the CDP Supplier Engagement Rating for the 5th consecutive year

## The Global Team Behind the Technology

A global engineering community that turns ideas into real-world impact.



**100,000+ people worldwide:** Engineers, scientists, and manufacturing specialists translate materials science into production-ready technology



**Global presence across 30+ countries:** Teams operate worldwide, combining local expertise with shared engineering standards



**Culture:** Research, design, and manufacturing connect to move innovations out of the lab and into deployed systems

## Powering the Future

Advancing the systems that are defining the future, including EV and charging infrastructure, energy storage, electric and hybrid transformation, and high-performance AI data centers.

- **Ceracharge:** Advanced rechargeable multilayer ceramic technology combining high density, miniaturization and no risk of electrolytic leakage.
- **PowerHap:** Compact multilayer piezoceramic actuators deliver fast, precise, and natural-feel haptic feedback for enhanced HMI interface.
- **MLCCs:** High-performance layering technology for maximum reliability and space efficiency.
- **μPOL:** High-performance, chip-embedded DC-DC converters maximizing power density and efficiency.



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