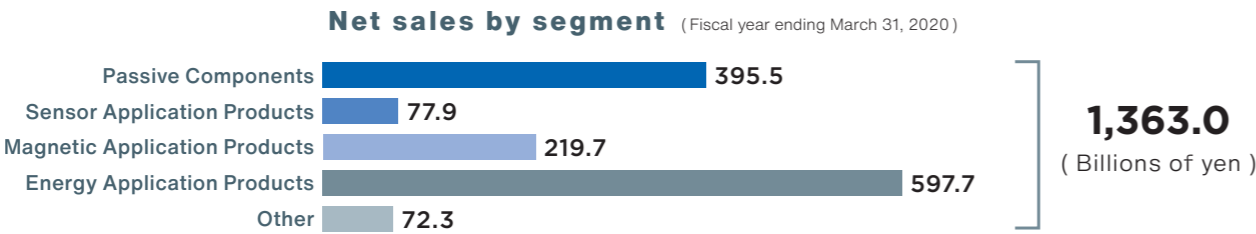


# TDK's versatile product lineup

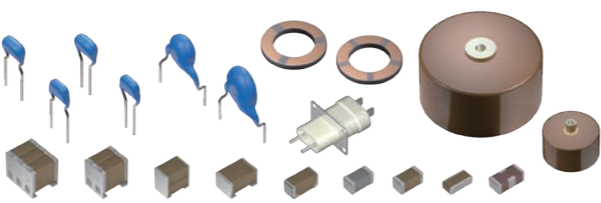
\* The product lineup logomarks indicate product brands



## Passive Components

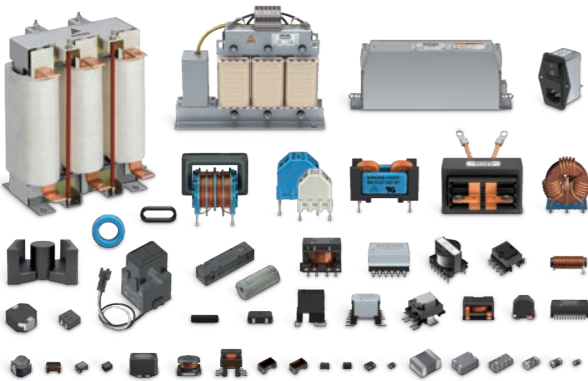
### Ceramic capacitors

Used for noise suppression and signal processing in a wide range of electronic devices indispensable for daily life. More than 3,000 multilayer ceramic chip capacitors, the most commonly used type of ceramic capacitors, can be found in a single automobile, and use is expected to increase even further in the future.



### Inductive devices

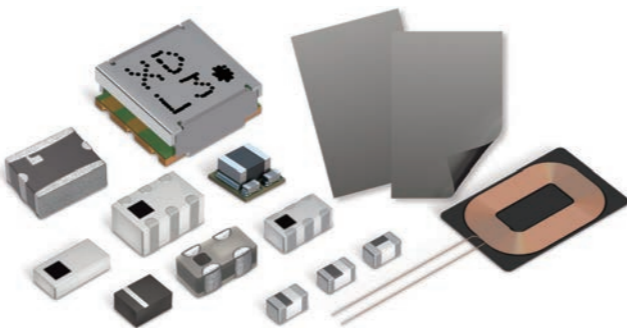
The lineup includes inductors of different types including wire-wound, multilayer, and thin-film, as well as transformers and noise countermeasure components. These contribute significantly to fuel economy in cars, higher efficiency in communication systems, as well as higher sensitivity and longer battery life in smartphones.



### High-frequency components

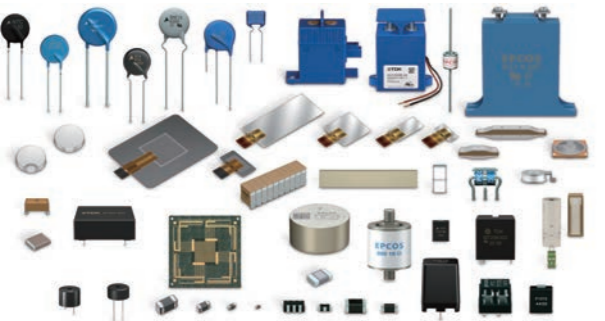
TDK supplies high-frequency components and modules based on advanced technologies such as LTCC technology, thin-film technology, ferrite material technology and SESUB technology. Ongoing development of new products in this area contributes to the world's most advanced mobile devices.

LTCC: Low Temperature Co-fired Ceramic multilayer substrate  
SESUB: Semiconductor Embedded in SUBstrate



### Piezoelectric material products, circuit protection devices

Piezoelectric materials application products such as the piezo actuators which are minute, and are available for high-precision drives. Other key items in this area are circuit protection devices such as varistors and arrestors.



### Aluminum electrolytic capacitors and film capacitors

Aluminum electrolytic capacitors feature high capacitance and come in various types, such as large products for industrial equipment, higher liability axial lead types for automotive applications, etc. Film capacitors have high voltage and low loss characteristics and are used in many different applications.



## Sensor Application Products

### Sensors

The lineup includes temperature sensors, pressure sensors, gear tooth sensors, current sensors and various other sensors that are essential for realizing multifunction capability in electronic devices, improving the functionality of automotive electronics, and driving progress in factory automation and office automation. Furthermore, TDK offers a variety of motion sensors including acceleration and gyro sensors, along with ultrasonic Time-of-Flight, atmospheric pressure sensors and similar, providing added value to ICT and industrial applications.



## Magnetic Application Products

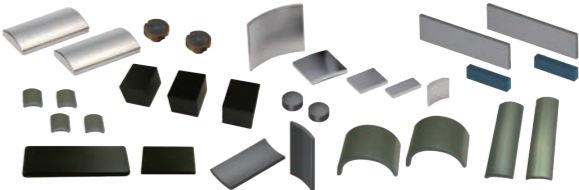
### HDD magnetic heads and suspensions

TDK's high-performance magnetic heads have continuously supported increases in HDD recording capacity for many years. TDK will continue contributing to even higher recording capacities by new magnetic head technologies that incorporate energy assist recording methods.



### Magnets

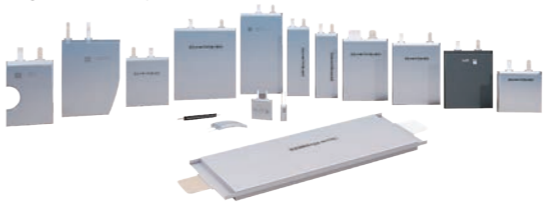
In addition to ferrite magnets and neodymium magnets, TDK also offers rare earth free magnets. These contribute to energy and resource conservation and higher efficiency in the automotive sector as well as infrastructure and industrial equipment.



## Energy Application Products

### Energy devices

TDK contributes to the storage of electrical energy in many instances, ranging from low-profile batteries in tiny devices such as smartphones to the massive high-capacity batteries of solar power generation systems.



### Power supplies

Designed mainly for industrial equipment, the lineup includes AC-DC switching power supplies, programmable power supplies, DC-DC converters, and power supplies for charging storage batteries. Automotive power supplies for xEV are also available.



## Other

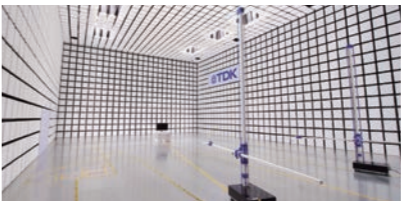
### Flash memory applied devices

TDK supplies solid state drives (SSDs) and CompactFlash cards with proprietary memory control chips for industrial use. For example, these can be found in communication base stations and traffic control systems, providing support for the age of Big Data.



### Anechoic chambers

Anechoic chambers from TDK have gained an excellent reputation around the world as top-level tools for measurement accuracy, efficiency, and reliability. TDK also offers EMC solutions comprising highly accurate EMC measurement services to support effective noise countermeasures.



### Factory automation equipment

TDK's expertise in mechatronics gained in the production of outstanding electronic components is available in the form of production equipment. We provide Load Ports for various wafer sizes and Flip Chip Bonding Systems as well as a range of other advanced factory automation equipment.

