### **Review of Operations**

# At a Glance



Year ended March 31, 2017



The TAIYO YUDEN Group is manufacturing and selling electronic components including capacitors, ferrite and its applied products, and integrated modules & devices. Communication equipment such as smartphones needs compact, thin and front line electronic components with excellent features to be compatible with the equipment becoming thinner with high performance ability, enhanced functionality, evolved communication system, and high-density implementation of electronic components. With the growing use of electronic components in automotive, industrial equipment, healthcare, and environment/energy markets, demand for electronic parts is rising, resulting in high quality and high reliability being called for more than ever before.

In these kinds of markets, the TAIYO YUDEN Group will quickly develop highly competitive, cutting-edge products that can

contribute to a technological evolution in equipment.

Having positioned automotive electronics and industrial equipment, healthcare, and environment and energy as focus markets, the Group is working on promoting sales of high-reliability products, on strengthening proposals on systems solutions, and on expanding and diversifying its distribution channels.

In response to robust demand, the Group will also bolster production capacity at home and abroad to realize the stability of supply, leading to sales expansion. In addition, while working to improve its manufacturing capabilities and to achieve high production efficiency, the Group will set up a structure that is resilient to pressure to cut costs and to fluctuations in foreign exchange rates by putting its overseas production bases to full use.

# Review of Operations/ Capacitors

We are focusing on the development of multilayer ceramic capacitors that are small and thin with high capacitance and high reliability. We are also continuing the development of cutting-edge multilayer ceramic capacitors by advancing our dielectric materials technologies, thin-film and high-capacitance technologies, and ultra-small capacitor production technologies.

In the fiscal year ended March 31, 2017, although sales for automotive and industrial equipment increased compared with the previous fiscal year, sales for consumer products as well as for information and communication equipment decreased. As a result, net sales decreased 4.9% year on year to ¥117,666 million.

#### **Main Products**

#### Multilayer ceramic capacitors



0201 size (0.25 mm × 0.125 mm) ultra-small multilayer ceramic capacitors

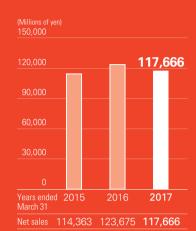


1005 size (1.0 mm × 0.5 mm) low-profile multilayer ceramic capacitors with 0.11 mm thickness



4532 size (4.5 mm  $\times$  3.2 mm) small high-capacitance multilayer ceramic capacitors with 470  $\mu$ F capacitance

#### **Net sales**



# Review of Operations/ Ferrite and Applied Products

In addition to small, thin inductors with higher current, we are working on the development of large, high-reliability inductors and targeting automotive and industrial equipment applications. We are also developing competitive products by bringing about even greater sophistication in our materials development as well as our wire-winding and multilayer process technologies.

In the fiscal year ended March 31, 2017, despite increased year-on-year sales for automotive and industrial equipment, sales for consumer products as well as for information and communication equipment decreased. As a result, net sales decreased 11.2% year on year to ¥41,273 million.

#### **Main Products**

 $\label{eq:mcoll} \textbf{MCOIL}^{\text{TM}}\ \text{metal power inductors, wire-wound inductors, multilayer chip inductors, and many other types of inductors}$ 



MCOIL™ metal power inductors

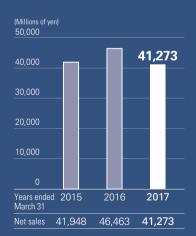


High-Q multilayer chip inductors for high frequency applications



Ultra-small multilayer chip inductors

#### **Net sales**



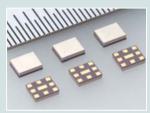
# Review of Operations/ Integrated Modules & Devices

We are focusing on the technologies for film bulk acoustic resonator/surface acoustic wave (FBAR/SAW) filter devices for mobile communications and the development of products with cores drawing on our multilayer ceramic filter technologies, as well as on the development of next-generation, solutions-based products intended for the focus markets that combine the Company's core technologies.

In the fiscal year ended March 31, 2017, sales of FBAR/SAW devices for mobile communications and EOMIN<sup>TM</sup> embedded-parts multilayer wiring substrates increased compared with the previous fiscal year. As a result, net sales rose 13.7% year on year to ¥65,580 million.

#### **Main Products**

FBAR/SAW devices for mobile communications, power supply modules, high frequency modules and embedded-parts multilayer wiring substrate EOMIN™



FBAR/SAW devices for mobile communications

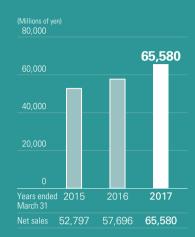


High frequency modules



Multilayer ceramic filters

### **Net sales**



### Review of Operations/ Others

We are focusing on developing energy devices with an eye to entering the automotive electronics and high-reliability product markets.

------

In the fiscal year ended March 31, 2017, net sales fell 50.6% year on year to ¥6,196 million due to the significant decrease in performance brought about by our withdrawal from the optical media products business.

#### **Main Products**

#### Energy devices





Cylinder type lithium ion capacitors 
Cylinder type polyacene capacitors

### **Net sales**

