

Chip Resistor Market Report by Type (Pressure-Sensitive, Thermosensitive, and Others), Technology (Thick Chip Resistors, Thin Chip Resistors, and Others), End Use (Automotive and Transportation, Consumer Electronics, Industrial, IT and Telecommunication, and Others), and Region 2024-2032

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Abstracts

The global chip resistor market size reached US\$ 1,191.1 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,868.4 Million by 2032, exhibiting a growth rate (CAGR) of 5% during 2024-2032.

Chip resistors, also known as surface-mount devices or SMD resistors, refer to integrated circuit (IC) devices designed to oppose the flow of electric current. They are typically manufactured in small rectangular or square chip bundles using metal films or metal oxides and covered with multiple layers of a thin protective coating. Nowadays, chip resistors are widely available in fixed and variable resistance variants. They are primarily utilized to operate, protect and control circuits in advanced electronics due to their excellent stability, resistance to temperature, and heat dissipation properties. As a result, chip resistors find extensive applications across numerous industries, including consumer electronics, automotive, transportation, healthcare, information technology (IT) and telecom.

Chip Resistor Market Trends:

The increasing usage of consumer electronics, such as smartphones, laptops, smart TVs, automotive logging devices, and speakers, represents the primary factor driving the market growth. Additionally, the emerging trend of electronics miniaturization and

the escalating demand for compact devices are accelerating the adoption of chip resistors as they are more cost-efficient and smaller than traditional lead resistors. Besides this, the leading manufacturers are investing heavily in research and development (R&D) activities to launch innovative product variants and expand their product portfolio. For instance, they have developed a high precision thin film chip resistor with the most robust electro-static discharge (ESD) protection to enhance accuracy and reduce the risks of ESDs in industrial robots and automotive electronic control units (ECUs). Furthermore, the increasing sales of high-end automobiles and hybrid electric vehicles are catalyzing the product demand for use in automotive components. Other factors, including the rising digitization across various end use sectors, growing adoption of 4G and 5G technology, rapid urbanization and inflating consumer disposable incomes, are also creating a positive market outlook.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global chip resistor market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, technology and end use.

Breakup by Type:

- Pressure-Sensitive
- Thermosensitive
- Others

Breakup by Technology:

- Thick Chip Resistors
- Thin Chip Resistors
- Others

Breakup by End Use:

- Automotive and Transportation
- Consumer Electronics
- Industrial
- IT and Telecommunication
- Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Bourns Inc., International Manufacturing Services Inc, Koa Corporation, Panasonic Corporation, Rohm Semiconductor, Samsung Electro-Mechanics, Susumu International U.S.A., TE Connectivity, TT Electronics Plc, Viking Tech Corporation, Vishay Intertechnology Inc. and YAGEO Group.

Key Questions Answered in This Report

1. What was the size of the global chip resistor market in 2023?
2. What is the expected growth rate of the global chip resistor market during 2024-2032?

3. What are the key factors driving the global chip resistor market?
4. What has been the impact of COVID-19 on the global chip resistor market?
5. What is the breakup of the global chip resistor market based on the technology?
6. What is the breakup of the global chip resistor market based on the end use?
7. What are the key regions in the global chip resistor market?
8. Who are the key players/companies in the global chip resistor market?

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