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# Electronic Components: United States

April 2018



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# About This Report

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## Scope & Method

This report forecasts to 2022 US electronic component shipments in nominal US dollars at the manufacturer level. Total shipments are segmented by product in terms of:

- integrated circuits
- other semiconductors
- printed circuit assemblies
- connectors
- printed circuit boards
- other electronic components such as capacitors, electron tubes, inductors, and resistors

To illustrate historical trends, total shipments, the various segments, and trade are provided in annual series from 2007 to 2017.

Electrical connectors – such as plugs, bus bars, twist-on wire connectors, and terminals – are excluded from the scope of this report. Re-exports of electronic components are excluded from trade figures.

This report quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or  $r^2$ . The most stable data series relative to the trend carries an  $r^2$  value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

## Sources

*Electronic Components: United States* (FF80018) represents the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

## About This Report

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

## Industry Codes

Table 7 | Industry Codes Related to Electronic Components

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
334411	Electron Tube Mfg	3671	Electron Tubes
334412	Bare Printed Circuit Board Mfg	3672	Printed Circuit Boards
334413	Semiconductor and Related Device Mfg	3674	Semiconductors and Related Devices
334414	Electronic Capacitor Mfg	3675	Electronic Capacitors
334415	Electronic Resistor Mfg	3676	Electronic Resistors
334416	Electronic Coil, Transformer, and Other Inductor Mfg	3677	Electronic Coils, Transformers, and Other Inductors
334417	Electronic Connector Mfg	3678	Electronic Connectors
334418	Printed Circuit Assembly (Electronic Assembly) Mfg	3679	Electronic Components, NEC
334419	Other Electronic Component Mfg		

Source: US Census Bureau

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## Resources

### The Freedonia Group

#### Freedonia Industry Studies

*North America Automotive Aftermarket*, November 2017

*Protective Packaging in the US*, November 2017

*World Industrial Silica Sand*, October 2016

*World Specialty Silicas*, April 2016

*Specialty Silicas*, January 2016

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### Trade Publications

*Circuits Assembly*

*Compound Semiconductor*

*EDN Network*

*EE Times*

*EPS News*

*Semiconductor Engineering*

*Solid State Technology*

### Agencies & Associations

Electronic Components Industry Association

Global Semiconductor Alliance

Institute of Electrical and Electronics Engineers

IPC – Association Connecting Electronics Industries

The Optical Society

SEMI

Semiconductor Industry Association

United States Department of Commerce

## About This Report

International Trade Administration  
United States Census Bureau  
United States Department of Labor  
Occupational Safety and Health Administration  
United States Environmental Protection Agency  
United States International Trade Commission  
World Semiconductor Trade Statistics