

Global Silicon-Based Integrated Passive Devices Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Silicon-Based Integrated Passive Devices market size will reach 1,199.44 Million USD in 2025 and is projected to reach 2,087.82 Million USD by 2032, with a CAGR of 8.24% (2025-2032). Notably, the China Silicon-Based Integrated Passive Devices market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Silicon-based integrated passive devices (IPDs) are miniaturized electronic components fabricated directly on silicon substrates using semiconductor manufacturing processes. These devices integrate passive components such as resistors, capacitors, and inductors onto a single silicon chip, eliminating the need for discrete components and enabling compact and highly integrated electronic systems. Silicon-based IPDs offer several advantages, including reduced size, lower cost, improved performance, and enhanced reliability compared to traditional discrete passive components. They find applications in various electronic systems, including wireless communication devices, RF front-end modules, sensors, and medical implants, where space constraints, high-frequency operation, and reliability are critical factors. Silicon-based IPDs enable the development of smaller, lighter, and more power-efficient electronic products, driving advancements in mobile communications, IoT devices, and wearable technology.

The major global manufacturers of Silicon-Based Integrated Passive Devices include

STMicroelectronics, Qorvo, Broadcom, Murata, AVX, Skyworks, ON Semiconductor, Johanson Technology, Onchip Devices, Xpedic, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Silicon-Based Integrated Passive Devices. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Silicon-Based Integrated Passive Devices market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Silicon-Based Integrated Passive Devices market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Silicon-Based Integrated Passive Devices industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Silicon-Based Integrated Passive Devices Include:

STMicroelectronics

Qorvo

Broadcom

Murata

AVX

Skyworks

ON Semiconductor

Johanson Technology

Onchip Devices

Xpeedic

Silicon-Based Integrated Passive Devices Product Segment Include:

Digital & Mixed Signal IPD

RF IPD

ESD/EMI Protection

Silicon-Based Integrated Passive Devices Product Application Include:

Consumer Electronics

Industrial

Network and Server Equipment

Automotive

Medical and Life Sciences

Other

Chapter Scope

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