

Global Positive Intrinsic Negative (PIN) Diodes Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/P379992BAEDAEN.html>

Date: July 2025

Pages: 141

Price: US\$ 3,480.00 (Single User License)

ID: P379992BAEDAEN

Abstracts

According to our (Global Info Research) latest study, the global Positive Intrinsic Negative (PIN) Diodes market size was valued at US\$ 805 million in 2024 and is forecast to a readjusted size of USD 1016 million by 2031 with a CAGR of 3.4% during review period.

A PIN diode is a semiconductor device that operates as a variable resistor at RF and microwave frequencies. The resistance value of the PIN diode is determined only by the forward biased DC current. In switch and attenuator applications, the PIN diode should ideally control the RF signal level without introducing distortion which might change the shape of the RF signal. An important additional feature of the PIN diode is its ability to control large RF signals while using much smaller levels of DC excitation.

The industry's leading producers are Skyworks, Infineon and M/A-COM, with revenue ratios of 11.54%, 9.33% and 8.15% in 2019.

This report is a detailed and comprehensive analysis for global Positive Intrinsic Negative (PIN) Diodes market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Positive Intrinsic Negative (PIN) Diodes market size and forecasts, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Units), 2020-2031

Global Positive Intrinsic Negative (PIN) Diodes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Units), 2020-2031

Global Positive Intrinsic Negative (PIN) Diodes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Units), 2020-2031

Global Positive Intrinsic Negative (PIN) Diodes market shares of main players, shipments in revenue (\$ Million), sales quantity (M Units), and ASP (US\$/K Units), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Positive Intrinsic Negative (PIN) Diodes
To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global Positive Intrinsic Negative (PIN) Diodes market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Skyworks, Infineon, M/A-COM, Microchip, NXP, Broadcom, ROHM, ON Semiconductor, Vishay, Albis Optoelectronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Positive Intrinsic Negative (PIN) Diodes market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche

markets.

Market segment by Type

Surface Mount PIN Diodes

Through Hole PIN Diode

Market segment by Application

RF Switch

Attenuators

RF Limiters

Photodetector

Others

Major players covered

Skyworks

Infineon

M/A-COM

Microchip

NXP

Broadcom

ROHM

ON Semiconductor

Vishay

Albis Optoelectronics

Cobham

Laser Components

LITEC

GeneSiC Semiconductor

Kexin

Comchip Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Positive Intrinsic Negative (PIN) Diodes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Positive Intrinsic Negative (PIN) Diodes, with price, sales quantity, revenue, and global market share of Positive Intrinsic Negative (PIN) Diodes from 2020 to 2025.

Chapter 3, the Positive Intrinsic Negative (PIN) Diodes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Positive Intrinsic Negative (PIN) Diodes breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Positive Intrinsic Negative (PIN) Diodes market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Positive Intrinsic Negative (PIN) Diodes.

Chapter 14 and 15, to describe Positive Intrinsic Negative (PIN) Diodes sales channel, distributors, customers, research findings and conclusion.

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