

Global LDMOS Transistors Market Growth 2025-2031

<https://marketpublishers.com/r/G515DFEF0DE0EN.html>

Date: June 2026

Pages: 115

Price: US\$ 3,660.00 (Single User License)

ID: G515DFEF0DE0EN

Abstracts

The global LDMOS Transistors market size is predicted to grow from US\$ 2615 million in 2025 to US\$ 4169 million in 2031; it is expected to grow at a CAGR of 8.1% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

LDMOS (laterally-diffused metal-oxide semiconductor) is a planar double-diffused MOSFET (metal-oxide-semiconductor field-effect transistor) used in amplifiers, including microwave power amplifiers, RF power amplifiers and audio power amplifiers. These transistors are often fabricated on p/p+ silicon epitaxial layers. The fabrication of LDMOS devices mostly involves various ion-implantation and subsequent annealing cycles. As an example, the drift region of this power MOSFET is fabricated using up to three ion implantation sequences in order to achieve the appropriate doping profile needed to withstand high electric fields. LDMOS Transistors are active semiconductor devices that are used to modify the properties of an input signal (used to amplify or switch).

The silicon-based RF LDMOS (radio-frequency LDMOS) is the most widely used RF power amplifier in mobile networks, enabling the majority of the world's cellular voice and data traffic. LDMOS devices are widely used in RF power amplifiers for base-stations as the requirement is for high output power with a corresponding drain to source breakdown voltage usually above 60 volts. Compared to other devices such as GaAs FETs they show a lower maximum power gain frequency. One of the major growth factors for the LDMOS transistors market is the rapid expansion of 5G infrastructure. As countries worldwide race to deploy 5G networks, the need for components that can support high-frequency and high-power applications becomes

critical. LDMOS transistors, known for their robustness and reliability in RF and microwave applications, are in high demand to meet these requirements. Additionally, the increasing adoption of IoT devices and smart technologies further fuels the demand for reliable and efficient power amplifiers capable of supporting a myriad of applications. Another significant growth driver is the rising demand for electric and hybrid vehicles in the automotive industry. As these vehicles become more prevalent, the need for efficient power management systems grows, driving the demand for LDMOS transistors. These transistors are integral to the power electronics systems that manage the operation of electric motors, power conversion, and battery management, thereby enhancing the overall efficiency and performance of vehicles. The push for greener and more sustainable transportation solutions further amplifies this demand.

LP Information, Inc. (LPI) ' newest research report, the “LDMOS Transistors Industry Forecast” looks at past sales and reviews total world LDMOS Transistors sales in 2024, providing a comprehensive analysis by region and market sector of projected LDMOS Transistors sales for 2025 through 2031. With LDMOS Transistors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world LDMOS Transistors industry.

This Insight Report provides a comprehensive analysis of the global LDMOS Transistors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on LDMOS Transistors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global LDMOS Transistors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LDMOS Transistors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global LDMOS Transistors.

This report presents a comprehensive overview, market shares, and growth opportunities of LDMOS Transistors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pulse

CW

Segmentation by Application:

Wireless Infrastructure

ISM

Aerospace & Defence

Radar

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NXP Semiconductors

Ampleon

Integra Technologies, Inc

Advanced Semiconductor, Inc

STMicroelectronics

Wolfspeed

MACOM

Beijing Yandong Micro Electronic

Polyfet RF Devices

Tower Semiconductor Ltd

Lfoundry

Globalfoundries

Infineon

Key Questions Addressed in this Report

What is the 10-year outlook for the global LDMOS Transistors market?

What factors are driving LDMOS Transistors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do LDMOS Transistors market opportunities vary by end market size?

How does LDMOS Transistors break out by Type, by Application?

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