

Chip-on-Board LED Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application, Product Type

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Abstracts

Chip-on-Board LED Market Summary

Introduction and Market Overview

Chip-on-Board (COB) LEDs, offering high brightness and efficiency, are used in lighting, automotive, and display applications. With global LED lighting demand growing 7% in 2023, COB LEDs are valued for energy efficiency. The rise of smart lighting and automotive innovations drives market expansion. The global COB LED market is estimated at USD 600-900 million in 2025, with a CAGR of 6%-10% through 2030, fueled by energy-saving trends and technological advancements.

Regional Market Trends

North America: The U.S. and Canada lead with demand for smart lighting and automotive COB LEDs.

Europe: Germany and UK focus on energy-efficient and high-performance LEDs.

Asia Pacific: China, Japan, and South Korea see growth in lighting and backlight applications.

Rest of the World: Brazil and India expand with rising urbanization and lighting needs.

Application Analysis

Illumination: Expected growth of 6%-10%, driven by residential and commercial lighting. Trends focus on smart systems.

Automotive: Projected growth of 7%-11%, valued for headlights and interiors. Trends emphasize durability.

Backlight: Anticipated growth of 5%-9%, used in displays. Trends highlight high-resolution screens.

Others: Growth of 4%-8%, including medical lighting, with a focus on niche applications.

Type Analysis

COB LED Modules: Expected growth of 6%-9%, preferred for general lighting. Trends focus on modularity.

COB LED Arrays: Projected growth of 7%-11%, valued for high-power applications. Trends emphasize efficiency.

COB LED Components: Anticipated growth of 5%-8%, used in custom solutions. Trends highlight miniaturization.

Key Market Players

Bridgelux: Markets COB LEDs for general lighting.

WOLFSPEED, EPISTAR Corporation, Lextar Electronics Corporation, Lumileds Holding, EVERLIGHT ELECTRONICS, Savant Systems, NICHIA CORPORATION, ams-OSRAM, Signify Holding, SAMSUNG, Seoul Semiconductor: Focus on high-efficiency and durable COB LED solutions.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate, due to manufacturing expertise and capital barriers.

Threat of Substitutes: High, with traditional LEDs and OLEDs as alternatives.

Bargaining Power of Buyers: High, due to multiple suppliers and price sensitivity.

Bargaining Power of Suppliers: Moderate, due to limited high-quality chip sources.

Competitive Rivalry: High, driven by innovation in efficiency and brightness.

Market Opportunities and Challenges

Opportunities:

Leveraging 7% LED lighting market growth for COB LEDs.

Targeting smart lighting and automotive applications.

Innovating with high-efficiency and miniaturized COB LEDs.

Expanding into emerging markets like India and Brazil.

Challenges:

Competing with OLED and traditional LED technologies.

High costs of developing high-performance COB LEDs.

Addressing heat dissipation concerns in COB designs.

Navigating energy efficiency regulations.

Managing supply chain disruptions for LED chips.

Contents

Table of Content

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

CHAPTER 4 MARKET LANDSCAPE

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Chip-On-Board Led Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 TRADING ANALYSIS

- 8.1 Export of Chip-On-Board Led by Region
- 8.2 Import of Chip-On-Board Led by Region
- 8.3 Balance of Trade

CHAPTER 9 HISTORICAL AND FORECAST CHIP-ON-BOARD LED MARKET IN NORTH AMERICA (2020-2030)

- 9.1 Chip-On-Board Led Market Size
- 9.2 Chip-On-Board Led Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
 - 9.5.1 United States
 - 9.5.2 Canada
 - 9.5.3 Mexico

CHAPTER 10 HISTORICAL AND FORECAST CHIP-ON-BOARD LED MARKET IN SOUTH AMERICA (2020-2030)

- 10.1 Chip-On-Board Led Market Size
- 10.2 Chip-On-Board Led Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
 - 10.5.1 Brazil
 - 10.5.2 Argentina
 - 10.5.3 Chile
 - 10.5.4 Peru

CHAPTER 11 HISTORICAL AND FORECAST CHIP-ON-BOARD LED MARKET IN

ASIA & PACIFIC (2020-2030)

- 11.1 Chip-On-Board Led Market Size
- 11.2 Chip-On-Board Led Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
 - 11.5.1 China
 - 11.5.2 India
 - 11.5.3 Japan
 - 11.5.4 South Korea
 - 11.5.5 Southeast Asia
 - 11.5.6 Australia

CHAPTER 12 HISTORICAL AND FORECAST CHIP-ON-BOARD LED MARKET IN EUROPE (2020-2030)

- 12.1 Chip-On-Board Led Market Size
- 12.2 Chip-On-Board Led Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
 - 12.5.1 Germany
 - 12.5.2 France
 - 12.5.3 United Kingdom
 - 12.5.4 Italy
 - 12.5.5 Spain
 - 12.5.6 Belgium
 - 12.5.7 Netherlands
 - 12.5.8 Austria
 - 12.5.9 Poland
 - 12.5.10 Russia

CHAPTER 13 HISTORICAL AND FORECAST CHIP-ON-BOARD LED MARKET IN MEA (2020-2030)

- 13.1 Chip-On-Board Led Market Size
- 13.2 Chip-On-Board Led Demand by End Use
- 13.3 Competition by Players/Suppliers

- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis
 - 13.5.1 Egypt
 - 13.5.2 Israel
 - 13.5.3 South Africa
 - 13.5.4 Gulf Cooperation Council Countries
 - 13.5.5 Turkey

CHAPTER 14 SUMMARY FOR GLOBAL CHIP-ON-BOARD LED MARKET (2020-2025)

- 14.1 Chip-On-Board Led Market Size
- 14.2 Chip-On-Board Led Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

CHAPTER 15 GLOBAL CHIP-ON-BOARD LED MARKET FORECAST (2025-2030)

- 15.1 Chip-On-Board Led Market Size Forecast
- 15.2 Chip-On-Board Led Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS

- 16.1 Bridgelux
 - 16.1.1 Company Profile
 - 16.1.2 Main Business and Chip-on-Board LED Information
 - 16.1.3 SWOT Analysis of Bridgelux
 - 16.1.4 Bridgelux Chip-on-Board LED Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.2 WOLFSPEED
 - 16.2.1 Company Profile
 - 16.2.2 Main Business and Chip-on-Board LED Information
 - 16.2.3 SWOT Analysis of WOLFSPEED
 - 16.2.4 WOLFSPEED Chip-on-Board LED Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.3 EPISTAR Corporation
 - 16.3.1 Company Profile

- 16.3.2 Main Business and Chip-on-Board LED Information
 - 16.3.3 SWOT Analysis of EPISTAR Corporation
 - 16.3.4 EPISTAR Corporation Chip-on-Board LED Sales, Revenue, Price and Gross Margin (2020-2025)
 - 16.4 Lextar Electronics Corporation
 - 16.4.1 Company Profile
 - 16.4.2 Main Business and Chip-on-Board LED Information
 - 16.4.3 SWOT Analysis of Lextar Electronics Corporation
 - 16.4.4 Lextar Electronics Corporation Chip-on-Board LED Sales, Revenue, Price and Gross Margin (2020-2025)
 - 16.5 Lumileds Holding
 - 16.5.1 Company Profile
 - 16.5.2 Main Business and Chip-on-Board LED Information
 - 16.5.3 SWOT Analysis of Lumileds Holding
 - 16.5.4 Lumileds Holding Chip-on-Board LED Sales, Revenue, Price and Gross Margin (2020-2025)
 - 16.6 EVERLIGHT ELECTRONICS
 - 16.6.1 Company Profile
 - 16.6.2 Main Business and Chip-on-Board LED Information
 - 16.6.3 SWOT Analysis of EVERLIGHT ELECTRONICS
 - 16.6.4 EVERLIGHT ELECTRONICS Chip-on-Board LED Sales, Revenue, Price and Gross Margin (2020-2025)
 - 16.7 Savant Systems
 - 16.7.1 Company Profile
 - 16.7.2 Main Business and Chip-on-Board LED Information
 - 16.7.3 SWOT Analysis of Savant Systems
 - 16.7.4 Savant Systems Chip-on-Board LED Sales, Revenue, Price and Gross Margin (2020-2025)
 - 16.8 NICHIA CORPORATION
 - 16.8.1 Company Profile
 - 16.8.2 Main Business and Chip-on-Board LED Information
 - 16.8.3 SWOT Analysis of NICHIA CORPORATION
 - 16.8.4 NICHIA CORPORATION Chip-on-Board LED Sales, Revenue, Price and Gross Margin (2020-2025)
- Please ask for sample pages for full companies list

Tables & Figures

TABLES AND FIGURES

Table Abbreviation and Acronyms List
Table Research Scope of Chip-On-Board Led Report
Table Data Sources of Chip-On-Board Led Report
Table Major Assumptions of Chip-On-Board Led Report
Figure Market Size Estimated Method
Figure Major Forecasting Factors
Figure Chip-On-Board Led Picture
Table Chip-On-Board Led Classification
Table Chip-On-Board Led Applications List
Table Drivers of Chip-On-Board Led Market
Table Restraints of Chip-On-Board Led Market
Table Opportunities of Chip-On-Board Led Market
Table Threats of Chip-On-Board Led Market
Table Covid-19 Impact For Chip-On-Board Led Market
Table Raw Materials Suppliers List
Table Different Production Methods of Chip-On-Board Led
Table Cost Structure Analysis of Chip-On-Board Led
Table Key End Users List
Table Latest News of Chip-On-Board Led Market
Table Merger and Acquisition List
Table Planned/Future Project of Chip-On-Board Led Market
Table Policy of Chip-On-Board Led Market
Table 2020-2030 Regional Export of Chip-On-Board Led
Table 2020-2030 Regional Import of Chip-On-Board Led
Table 2020-2030 Regional Trade Balance
Figure 2020-2030 Regional Trade Balance
Table 2020-2030 North America Chip-On-Board Led Market Size and Market Volume List
Figure 2020-2030 North America Chip-On-Board Led Market Size and CAGR
Figure 2020-2030 North America Chip-On-Board Led Market Volume and CAGR
Table 2020-2030 North America Chip-On-Board Led Demand List by Application
Table 2020-2025 North America Chip-On-Board Led Key Players Sales List
Table 2020-2025 North America Chip-On-Board Led Key Players Market Share List
Table 2020-2030 North America Chip-On-Board Led Demand List by Type
Table 2020-2025 North America Chip-On-Board Led Price List by Type

Table 2020-2030 United States Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 United States Chip-On-Board Led Import & Export List

Table 2020-2030 Canada Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 Canada Chip-On-Board Led Import & Export List

Table 2020-2030 Mexico Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 Mexico Chip-On-Board Led Import & Export List

Table 2020-2030 South America Chip-On-Board Led Market Size and Market Volume List

Figure 2020-2030 South America Chip-On-Board Led Market Size and CAGR

Figure 2020-2030 South America Chip-On-Board Led Market Volume and CAGR

Table 2020-2030 South America Chip-On-Board Led Demand List by Application

Table 2020-2025 South America Chip-On-Board Led Key Players Sales List

Table 2020-2025 South America Chip-On-Board Led Key Players Market Share List

Table 2020-2030 South America Chip-On-Board Led Demand List by Type

Table 2020-2025 South America Chip-On-Board Led Price List by Type

Table 2020-2030 Brazil Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 Brazil Chip-On-Board Led Import & Export List

Table 2020-2030 Argentina Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 Argentina Chip-On-Board Led Import & Export List

Table 2020-2030 Chile Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 Chile Chip-On-Board Led Import & Export List

Table 2020-2030 Peru Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 Peru Chip-On-Board Led Import & Export List

Table 2020-2030 Asia & Pacific Chip-On-Board Led Market Size and Market Volume List

Figure 2020-2030 Asia & Pacific Chip-On-Board Led Market Size and CAGR

Figure 2020-2030 Asia & Pacific Chip-On-Board Led Market Volume and CAGR

Table 2020-2030 Asia & Pacific Chip-On-Board Led Demand List by Application

Table 2020-2025 Asia & Pacific Chip-On-Board Led Key Players Sales List

Table 2020-2025 Asia & Pacific Chip-On-Board Led Key Players Market Share List

Table 2020-2030 Asia & Pacific Chip-On-Board Led Demand List by Type

Table 2020-2025 Asia & Pacific Chip-On-Board Led Price List by Type

Table 2020-2030 China Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 China Chip-On-Board Led Import & Export List

Table 2020-2030 India Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 India Chip-On-Board Led Import & Export List

Table 2020-2030 Japan Chip-On-Board Led Market Size and Market Volume List

Table 2020-2030 Japan Chip-On-Board Led Import & Export List

Table 2020-2030 South Korea Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 South Korea Chip-On-Board Led Import & Export List
Table 2020-2030 Southeast Asia Chip-On-Board Led Market Size List
Table 2020-2030 Southeast Asia Chip-On-Board Led Market Volume List
Table 2020-2030 Southeast Asia Chip-On-Board Led Import List
Table 2020-2030 Southeast Asia Chip-On-Board Led Export List
Table 2020-2030 Australia Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Australia Chip-On-Board Led Import & Export List
Table 2020-2030 Europe Chip-On-Board Led Market Size and Market Volume List
Figure 2020-2030 Europe Chip-On-Board Led Market Size and CAGR
Figure 2020-2030 Europe Chip-On-Board Led Market Volume and CAGR
Table 2020-2030 Europe Chip-On-Board Led Demand List by Application
Table 2020-2025 Europe Chip-On-Board Led Key Players Sales List
Table 2020-2025 Europe Chip-On-Board Led Key Players Market Share List
Table 2020-2030 Europe Chip-On-Board Led Demand List by Type
Table 2020-2025 Europe Chip-On-Board Led Price List by Type
Table 2020-2030 Germany Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Germany Chip-On-Board Led Import & Export List
Table 2020-2030 France Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 France Chip-On-Board Led Import & Export List
Table 2020-2030 United Kingdom Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 United Kingdom Chip-On-Board Led Import & Export List
Table 2020-2030 Italy Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Italy Chip-On-Board Led Import & Export List
Table 2020-2030 Spain Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Spain Chip-On-Board Led Import & Export List
Table 2020-2030 Belgium Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Belgium Chip-On-Board Led Import & Export List
Table 2020-2030 Netherlands Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Netherlands Chip-On-Board Led Import & Export List
Table 2020-2030 Austria Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Austria Chip-On-Board Led Import & Export List
Table 2020-2030 Poland Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Poland Chip-On-Board Led Import & Export List
Table 2020-2030 Russia Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Russia Chip-On-Board Led Import & Export List
Table 2020-2030 MEA Chip-On-Board Led Market Size and Market Volume List
Figure 2020-2030 MEA Chip-On-Board Led Market Size and CAGR

Figure 2020-2030 MEA Chip-On-Board Led Market Volume and CAGR
Table 2020-2030 MEA Chip-On-Board Led Demand List by Application
Table 2020-2025 MEA Chip-On-Board Led Key Players Sales List
Table 2020-2025 MEA Chip-On-Board Led Key Players Market Share List
Table 2020-2030 MEA Chip-On-Board Led Demand List by Type
Table 2020-2025 MEA Chip-On-Board Led Price List by Type
Table 2020-2030 Egypt Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Egypt Chip-On-Board Led Import & Export List
Table 2020-2030 Israel Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Israel Chip-On-Board Led Import & Export List
Table 2020-2030 South Africa Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 South Africa Chip-On-Board Led Import & Export List
Table 2020-2030 Gulf Cooperation Council Countries Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Gulf Cooperation Council Countries Chip-On-Board Led Import & Export List
Table 2020-2030 Turkey Chip-On-Board Led Market Size and Market Volume List
Table 2020-2030 Turkey Chip-On-Board Led Import & Export List
Table 2020-2025 Global Chip-On-Board Led Market Size List by Region
Table 2020-2025 Global Chip-On-Board Led Market Size Share List by Region
Table 2020-2025 Global Chip-On-Board Led Market Volume List by Region
Table 2020-2025 Global Chip-On-Board Led Market Volume Share List by Region
Table 2020-2025 Global Chip-On-Board Led Demand List by Application
Table 2020-2025 Global Chip-On-Board Led Demand Market Share List by Application
Table 2020-2025 Global Chip-On-Board Led Key Vendors Sales List
Table 2020-2025 Global Chip-On-Board Led Key Vendors Sales Share List
Figure 2020-2025 Global Chip-On-Board Led Market Volume and Growth Rate
Table 2020-2025 Global Chip-On-Board Led Key Vendors Revenue List
Figure 2020-2025 Global Chip-On-Board Led Market Size and Growth Rate
Table 2020-2025 Global Chip-On-Board Led Key Vendors Revenue Share List
Table 2020-2025 Global Chip-On-Board Led Demand List by Type
Table 2020-2025 Global Chip-On-Board Led Demand Market Share List by Type
Table 2020-2025 Regional Chip-On-Board Led Price List
Table 2025-2030 Global Chip-On-Board Led Market Size List by Region
Table 2025-2030 Global Chip-On-Board Led Market Size Share List by Region
Table 2025-2030 Global Chip-On-Board Led Market Volume List by Region
Table 2025-2030 Global Chip-On-Board Led Market Volume Share List by Region
Table 2025-2030 Global Chip-On-Board Led Demand List by Application
Table 2025-2030 Global Chip-On-Board Led Demand Market Share List by Application

Table 2025-2030 Global Chip-On-Board Led Key Vendors Sales List
Table 2025-2030 Global Chip-On-Board Led Key Vendors Sales Share List
Figure 2025-2030 Global Chip-On-Board Led Market Volume and Growth Rate
Table 2025-2030 Global Chip-On-Board Led Key Vendors Revenue List
Figure 2025-2030 Global Chip-On-Board Led Market Size and Growth Rate
Table 2025-2030 Global Chip-On-Board Led Key Vendors Revenue Share List
Table 2025-2030 Global Chip-On-Board Led Demand List by Type
Table 2025-2030 Global Chip-On-Board Led Demand Market Share List by Type
Table 2025-2030 Chip-On-Board Led Regional Price List
Table Bridgelux Information
Table SWOT Analysis of Bridgelux
Table 2020-2025 Bridgelux Chip-on-Board LED Sale Volume Price Cost Revenue
Figure 2020-2025 Bridgelux Chip-on-Board LED Sale Volume and Growth Rate
Figure 2020-2025 Bridgelux Chip-on-Board LED Market Share
Table WOLFSPEED Information
Table SWOT Analysis of WOLFSPEED
Table 2020-2025 WOLFSPEED Chip-on-Board LED Sale Volume Price Cost Revenue
Figure 2020-2025 WOLFSPEED Chip-on-Board LED Sale Volume and Growth Rate
Figure 2020-2025 WOLFSPEED Chip-on-Board LED Market Share
Table EPISTAR Corporation Information
Table SWOT Analysis of EPISTAR Corporation
Table 2020-2025 EPISTAR Corporation Chip-on-Board LED Sale Volume Price Cost Revenue
Figure 2020-2025 EPISTAR Corporation Chip-on-Board LED Sale Volume and Growth Rate
Figure 2020-2025 EPISTAR Corporation Chip-on-Board LED Market Share
Table Lextar Electronics Corporation Information
Table SWOT Analysis of Lextar Electronics Corporation
Table 2020-2025 Lextar Electronics Corporation Chip-on-Board LED Sale Volume Price Cost Revenue
Figure 2020-2025 Lextar Electronics Corporation Chip-on-Board LED Sale Volume and Growth Rate
Figure 2020-2025 Lextar Electronics Corporation Chip-on-Board LED Market Share
Table Lumileds Holding Information
Table SWOT Analysis of Lumileds Holding
Table 2020-2025 Lumileds Holding Chip-on-Board LED Sale Volume Price Cost Revenue
Figure 2020-2025 Lumileds Holding Chip-on-Board LED Sale Volume and Growth Rate
Figure 2020-2025 Lumileds Holding Chip-on-Board LED Market Share

Table EVERLIGHT ELECTRONICS Information

Table SWOT Analysis of EVERLIGHT ELECTRONICS

Table 2020-2025 EVERLIGHT ELECTRONICS Chip-on-Board LED Sale Volume Price Cost Revenue

Figure 2020-2025 EVERLIGHT ELECTRONICS Chip-on-Board LED Sale Volume and Growth Rate

Figure 2020-2025 EVERLIGHT ELECTRONICS Chip-on-Board LED Market Share

Table Savant Systems Information

Table SWOT Analysis of Savant Systems

Table 2020-2025 Savant Systems Chip-on-Board LED Sale Volume Price Cost Revenue

Figure 2020-2025 Savant Systems Chip-on-Board LED Sale Volume and Growth Rate

Figure 2020-2025 Savant Systems Chip-on-Board LED Market Share

Table NICHIA CORPORATION Information

Table SWOT Analysis of NICHIA CORPORATION

Table 2020-2025 NICHIA CORPORATION Chip-on-Board LED Sale Volume Price Cost Revenue

Figure 2020-2025 NICHIA CORPORATION Chip-on-Board LED Sale Volume and Growth Rate

Figure 2020-2025 NICHIA CORPORATION Chip-on-Board LED Market Share

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