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Global Chip-on-Board Light Emitting Diodes (COB LEDs) Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global Chip-on-Board Light Emitting Diodes (COB LEDs) market size was valued at US$ 4302.9 million in 2023. With growing demand in downstream market, the Chip-on-Board Light Emitting Diodes (COB LEDs) is forecast to a readjusted size of US$ 5601 million by 2030 with a CAGR of 3.8% during review period.

The research report highlights the growth potential of the global Chip-on-Board Light Emitting Diodes (COB LEDs) market. Chip-on-Board Light Emitting Diodes (COB LEDs) are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Chip-on-Board Light Emitting Diodes (COB LEDs). Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Chip-on-Board Light Emitting Diodes (COB LEDs) market.

Chip on board (COB) Light Emitting Diode (LED) is the latest technology of packaging multi LED into one lighting module. Chip diodes of LED are bonded into the PCB by the manufacturers, making thermal conductivity move towards the circuit board resulting in lower heat emission. LED light source is preferred over traditional lighting due to its longer life span and brightness. But normal LED may cause uncomfortable glare which is further rectified in COB LED. Furthermore chip on board LED lights provide higher intensity along with homogenous luminosity helping in the rise in demand for chip on board LED lights globally. In addition to this advancement in design through innovation

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along with cost savings by large scale manufacture of COB LED lights further enhances the demand for chip on board LED lights. Application wise global chip on board LED market can be segmented into automotive, illumination and backlighting among others.

Relatively new to the LED market, chip on board (COB) LEDs offer many advantages over the standard options. COB LEDs are basically multiple LED chips (typically nine or more) bonded directly to a substrate by the manufacturer to form a single module. Since the individual LEDs used in a COB are chips and not traditionally packaged, the chips can be mounted such that they take up less space and the highest potential of the LED chips can be obtained. When the COB LED package is energized, it appears more like a lighting panel than multiple individual lights as would be the case when using several SMD LEDs mounted closely together.

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US$142.1 billion, up 17.0% year-on-year, sales in Europe were US$53.8 billion, up 12.6% year-on-year, and sales in Japan were US$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US$336.2 billion, down 2.0% year-on-year.

Key Features:

The report on Chip-on-Board Light Emitting Diodes (COB LEDs) market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Chip-on-Board Light Emitting Diodes (COB LEDs) market. It may include historical data, market segmentation by Type (e.g., Organized Structure, Unorganized Structure), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Chip-on-Board Light Emitting Diodes (COB LEDs) market, such as

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government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Chip-on-Board Light Emitting Diodes (COB LEDs) market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Chip-on-Board Light Emitting Diodes (COB LEDs) industry. This include advancements in Chip-on-Board Light Emitting Diodes (COB LEDs) technology, Chip-on-Board Light Emitting Diodes (COB LEDs) new entrants, Chip-on-Board Light Emitting Diodes (COB LEDs) new investment, and other innovations that are shaping the future of Chip-on-Board Light Emitting Diodes (COB LEDs).

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Chip-on-Board Light Emitting Diodes (COB LEDs) market. It includes factors influencing customer ' purchasing decisions, preferences for Chip-on-Board Light Emitting Diodes (COB LEDs) product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Chip-on-Board Light Emitting Diodes (COB LEDs) market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Chip-on-Board Light Emitting Diodes (COB LEDs) market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Chip-on-Board Light Emitting Diodes (COB LEDs) market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Chip-on-Board Light Emitting Diodes (COB LEDs) industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for

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industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Chip-on-Board Light Emitting Diodes (COB LEDs) market.

Market Segmentation:

Chip-on-Board Light Emitting Diodes (COB LEDs) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

- Organized Structure
- Unorganized Structure

Segmentation by application

- Automotive
- Illumination

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC

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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

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from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Cree Inc.

Lumileds

Osram Opto Semiconductors GmbH

Samsung Electronics Co. Ltd.

LG Innotek Co. Ltd.

Citizen Electronics Co. Ltd.

Nichia Corporation

Seoul Semiconductor Co. Ltd.

Everlight Electronics Co. Ltd.

Lumens Co. Ltd

Cooper Lighting

PerkinElmer

Sharp Electronics

Lextar Electronics Corporation

Key Questions Addressed in this Report

What is the 10-year outlook for the global Chip-on-Board Light Emitting Diodes (COB LEDs) market?

What factors are driving Chip-on-Board Light Emitting Diodes (COB LEDs) market growth, globally and by region?

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

How do Chip-on-Board Light Emitting Diodes (COB LEDs) market opportunities vary by end market size?

How does Chip-on-Board Light Emitting Diodes (COB LEDs) break out type, application?

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