

Global Electronic Package Metal Heat Sink Market Growth 2023-2029

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Abstracts

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The development of metal packaging materials has gone through 4 generations. The first generation is a low expansion coefficient alloy represented by Invar and Kovar alloys, and the thermal conductivity of the alloy is only 11-17W/(m•K). The second generation is a composite material represented by copper-tungsten (Cu-W) and Cu-molybdenum (Mo) materials, reaching about 200W / (m • K) and a thermal expansion coefficient of about $7.0 \times 10^{-6}/K$. Good overall performance is the main material of choice for power chip packaging. The third generation is a lightweight, low-expansion composite material represented by aluminum (Al)/SiP and Al/SiCp. The thermal conductivity of Al/SiP material is only about 120~150W / (m•K), although the thermal conductivity is low , But the overall performance of workability, air tightness, weldability, etc. is good, and it is widely used in the production of RF power device packaging shells, and the thermal conductivity of Al/SiCp materials can reach 220 W / (m • K), and at the same time The density is controlled at about 3.0 g/cm³. Although the processing is difficult, the good thermal conductivity also makes it widely used as a shell material or chip heat sink material. The fourth generation is a high thermal conductivity, low expansion composite material represented by Dia/Cu, diamond/aluminum (Dia/Al), etc., which are designed to have a thermal expansion coefficient of $6 \times 10^{-6} \sim 7 \times 10^{-6}/K$, With a thermal conductivity of 550~650W / (m • K), it can be used on the 2nd and 3rd generation semiconductor chip devices and used for heat sink packaging of high-power devices to help the devices solve heat dissipation problems and achieve stable operation.

LPI (LP Information)' newest research report, the “Electronic Package Metal Heat Sink Industry Forecast” looks at past sales and reviews total world Electronic Package Metal

Heat Sink sales in 2022, providing a comprehensive analysis by region and market sector of projected Electronic Package Metal Heat Sink sales for 2023 through 2029. With Electronic Package Metal Heat Sink sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Electronic Package Metal Heat Sink industry.

This Insight Report provides a comprehensive analysis of the global Electronic Package Metal Heat Sink 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 Electronic Package Metal Heat Sink portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Electronic Package Metal Heat Sink market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Electronic Package Metal Heat Sink 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 Electronic Package Metal Heat Sink.

The global Electronic Package Metal Heat Sink market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Electronic Package Metal Heat Sink is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Electronic Package Metal Heat Sink is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Electronic Package Metal Heat Sink is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Electronic Package Metal Heat Sink players cover Rogers Germany, Tecnisco, Heat Sinks Tungsten Molybdenum Science and Technology, Chengdu Eigen Material Technology, Luoyang Wochi, Citizen Electronics, HOSO Metal, AMETEK

Metals Wallingford and Hermetic Solutions, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of Electronic Package Metal Heat Sink market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Cu/Diamond

Al/SiCp

Al/Sip (Al₃₀Si₇₀)

Cu-Mo (Cu₃₀Mo₇₀)

Cu-W (Cu₂₀W₈₀)

Others

Segmentation by application

Semiconductor Laser

Microwave Power Device

Semiconductor Lighting Device

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 analyzing the company's coverage, product portfolio, its market penetration.

Rogers Germany

Tecnisco

Heat Sinks Tungsten Molybdenum Science and Technology

Chengdu Eigen Material Technology

Luoyang Wochi

Citizen Electronics

HOSO Metal

AMETEK Metals Wallingford

Hermetic Solutions

Element Six

Xinlong Metal Electrical

Key Questions Addressed in this Report

What is the 10-year outlook for the global Electronic Package Metal Heat Sink market?

What factors are driving Electronic Package Metal Heat Sink market growth, globally and by region?

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

How do Electronic Package Metal Heat Sink market opportunities vary by end market size?

How does Electronic Package Metal Heat Sink break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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