

Global Electronic Package Metal Heat Sink Market Research Report 2023(Status and Outlook)

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Abstracts

Report Overview

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. Bosson Research's latest report provides a deep insight into the global Electronic Package Metal Heat Sink market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Electronic Package Metal Heat Sink Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Electronic Package Metal Heat Sink market in any manner. Global Electronic Package Metal Heat Sink Market: Market Segmentation Analysis The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

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

Market Segmentation (by Type)

Cu/Diamond

Al/SiCp

Al/Sip (Al₃₀Si₇₀)

Cu-Mo (Cu₃₀Mo₇₀)

Cu-W (Cu₂₀W₈₀)

Others

Market Segmentation (by Application)

Semiconductor Laser

Microwave Power Device

Semiconductor Lighting Device

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Electronic Package Metal Heat Sink Market

Overview of the regional outlook of the Electronic Package Metal Heat Sink Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Electronic Package Metal Heat Sink Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Electronic Package Metal Heat Sink

1.2 Key Market Segments

1.2.1 Electronic Package Metal Heat Sink Segment by Type

1.2.2 Electronic Package Metal Heat Sink Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 ELECTRONIC PACKAGE METAL HEAT SINK MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Electronic Package Metal Heat Sink Market Size (M USD) Estimates and Forecasts (2018-2029)

2.1.2 Global Electronic Package Metal Heat Sink Sales Estimates and Forecasts (2018-2029)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 ELECTRONIC PACKAGE METAL HEAT SINK MARKET COMPETITIVE LANDSCAPE

3.1 Global Electronic Package Metal Heat Sink Sales by Manufacturers (2018-2023)

3.2 Global Electronic Package Metal Heat Sink Revenue Market Share by Manufacturers (2018-2023)

3.3 Electronic Package Metal Heat Sink Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global Electronic Package Metal Heat Sink Average Price by Manufacturers (2018-2023)

3.5 Manufacturers Electronic Package Metal Heat Sink Sales Sites, Area Served, Product Type

3.6 Electronic Package Metal Heat Sink Market Competitive Situation and Trends

3.6.1 Electronic Package Metal Heat Sink Market Concentration Rate

3.6.2 Global 5 and 10 Largest Electronic Package Metal Heat Sink Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 ELECTRONIC PACKAGE METAL HEAT SINK INDUSTRY CHAIN ANALYSIS

4.1 Electronic Package Metal Heat Sink Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF ELECTRONIC PACKAGE METAL HEAT SINK MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

6 ELECTRONIC PACKAGE METAL HEAT SINK MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Electronic Package Metal Heat Sink Sales Market Share by Type (2018-2023)

6.3 Global Electronic Package Metal Heat Sink Market Size Market Share by Type (2018-2023)

6.4 Global Electronic Package Metal Heat Sink Price by Type (2018-2023)

7 ELECTRONIC PACKAGE METAL HEAT SINK MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Electronic Package Metal Heat Sink Market Sales by Application
(2018-2023)

7.3 Global Electronic Package Metal Heat Sink Market Size (M USD) by Application
(2018-2023)

7.4 Global Electronic Package Metal Heat Sink Sales Growth Rate by Application
(2018-2023)

8 ELECTRONIC PACKAGE METAL HEAT SINK MARKET SEGMENTATION BY REGION

8.1 Global Electronic Package Metal Heat Sink Sales by Region

8.1.1 Global Electronic Package Metal Heat Sink Sales by Region

8.1.2 Global Electronic Package Metal Heat Sink Sales Market Share by Region

8.2 North America

8.2.1 North America Electronic Package Metal Heat Sink Sales by Country

8.2.2 U.S.

8.2.3 Canada

8.2.4 Mexico

8.3 Europe

8.3.1 Europe Electronic Package Metal Heat Sink Sales by Country

8.3.2 Germany

8.3.3 France

8.3.4 U.K.

8.3.5 Italy

8.3.6 Russia

8.4 Asia Pacific

8.4.1 Asia Pacific Electronic Package Metal Heat Sink Sales by Region

8.4.2 China

8.4.3 Japan

8.4.4 South Korea

8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America Electronic Package Metal Heat Sink Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa Electronic Package Metal Heat Sink Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

9 KEY COMPANIES PROFILE

9.1 Rogers Germany

9.1.1 Rogers Germany Electronic Package Metal Heat Sink Basic Information

9.1.2 Rogers Germany Electronic Package Metal Heat Sink Product Overview

9.1.3 Rogers Germany Electronic Package Metal Heat Sink Product Market Performance

9.1.4 Rogers Germany Business Overview

9.1.5 Rogers Germany Electronic Package Metal Heat Sink SWOT Analysis

9.1.6 Rogers Germany Recent Developments

9.2 Tecnisco

9.2.1 Tecnisco Electronic Package Metal Heat Sink Basic Information

9.2.2 Tecnisco Electronic Package Metal Heat Sink Product Overview

9.2.3 Tecnisco Electronic Package Metal Heat Sink Product Market Performance

9.2.4 Tecnisco Business Overview

9.2.5 Tecnisco Electronic Package Metal Heat Sink SWOT Analysis

9.2.6 Tecnisco Recent Developments

9.3 Heat Sinks Tungsten Molybdenum Science and Technology

9.3.1 Heat Sinks Tungsten Molybdenum Science and Technology Electronic Package Metal Heat Sink Basic Information

9.3.2 Heat Sinks Tungsten Molybdenum Science and Technology Electronic Package Metal Heat Sink Product Overview

9.3.3 Heat Sinks Tungsten Molybdenum Science and Technology Electronic Package Metal Heat Sink Product Market Performance

9.3.4 Heat Sinks Tungsten Molybdenum Science and Technology Business Overview

9.3.5 Heat Sinks Tungsten Molybdenum Science and Technology Electronic Package Metal Heat Sink SWOT Analysis

9.3.6 Heat Sinks Tungsten Molybdenum Science and Technology Recent Developments

9.4 Chengdu Eigen Material Technology

9.4.1 Chengdu Eigen Material Technology Electronic Package Metal Heat Sink Basic Information

9.4.2 Chengdu Eigen Material Technology Electronic Package Metal Heat Sink

Product Overview

9.4.3 Chengdu Eigen Material Technology Electronic Package Metal Heat Sink

Product Market Performance

9.4.4 Chengdu Eigen Material Technology Business Overview

9.4.5 Chengdu Eigen Material Technology Electronic Package Metal Heat Sink SWOT

Analysis

9.4.6 Chengdu Eigen Material Technology Recent Developments

9.5 Luoyang Wochi

9.5.1 Luoyang Wochi Electronic Package Metal Heat Sink Basic Information

9.5.2 Luoyang Wochi Electronic Package Metal Heat Sink Product Overview

9.5.3 Luoyang Wochi Electronic Package Metal Heat Sink Product Market

Performance

9.5.4 Luoyang Wochi Business Overview

9.5.5 Luoyang Wochi Electronic Package Metal Heat Sink SWOT Analysis

9.5.6 Luoyang Wochi Recent Developments

9.6 Citizen Electronics

9.6.1 Citizen Electronics Electronic Package Metal Heat Sink Basic Information

9.6.2 Citizen Electronics Electronic Package Metal Heat Sink Product Overview

9.6.3 Citizen Electronics Electronic Package Metal Heat Sink Product Market

Performance

9.6.4 Citizen Electronics Business Overview

9.6.5 Citizen Electronics Recent Developments

9.7 HOSO Metal

9.7.1 HOSO Metal Electronic Package Metal Heat Sink Basic Information

9.7.2 HOSO Metal Electronic Package Metal Heat Sink Product Overview

9.7.3 HOSO Metal Electronic Package Metal Heat Sink Product Market Performance

9.7.4 HOSO Metal Business Overview

9.7.5 HOSO Metal Recent Developments

9.8 AMETEK Metals Wallingford

9.8.1 AMETEK Metals Wallingford Electronic Package Metal Heat Sink Basic Information

9.8.2 AMETEK Metals Wallingford Electronic Package Metal Heat Sink Product Overview

9.8.3 AMETEK Metals Wallingford Electronic Package Metal Heat Sink Product Market Performance

9.8.4 AMETEK Metals Wallingford Business Overview

9.8.5 AMETEK Metals Wallingford Recent Developments

9.9 Hermetic Solutions

9.9.1 Hermetic Solutions Electronic Package Metal Heat Sink Basic Information

9.9.2 Hermetic Solutions Electronic Package Metal Heat Sink Product Overview

9.9.3 Hermetic Solutions Electronic Package Metal Heat Sink Product Market

Performance

9.9.4 Hermetic Solutions Business Overview

9.9.5 Hermetic Solutions Recent Developments

9.10 Element Six

9.10.1 Element Six Electronic Package Metal Heat Sink Basic Information

9.10.2 Element Six Electronic Package Metal Heat Sink Product Overview

9.10.3 Element Six Electronic Package Metal Heat Sink Product Market Performance

9.10.4 Element Six Business Overview

9.10.5 Element Six Recent Developments

9.11 Xinlong Metal Electrical

9.11.1 Xinlong Metal Electrical Electronic Package Metal Heat Sink Basic Information

9.11.2 Xinlong Metal Electrical Electronic Package Metal Heat Sink Product Overview

9.11.3 Xinlong Metal Electrical Electronic Package Metal Heat Sink Product Market

Performance

9.11.4 Xinlong Metal Electrical Business Overview

9.11.5 Xinlong Metal Electrical Recent Developments

10 ELECTRONIC PACKAGE METAL HEAT SINK MARKET FORECAST BY REGION

10.1 Global Electronic Package Metal Heat Sink Market Size Forecast

10.2 Global Electronic Package Metal Heat Sink Market Forecast by Region

10.2.1 North America Market Size Forecast by Country

10.2.2 Europe Electronic Package Metal Heat Sink Market Size Forecast by Country

10.2.3 Asia Pacific Electronic Package Metal Heat Sink Market Size Forecast by

Region

10.2.4 South America Electronic Package Metal Heat Sink Market Size Forecast by Country

10.2.5 Middle East and Africa Forecasted Consumption of Electronic Package Metal Heat Sink by Country

11 FORECAST MARKET BY TYPE AND BY APPLICATION (2024-2029)

11.1 Global Electronic Package Metal Heat Sink Market Forecast by Type (2024-2029)

11.1.1 Global Forecasted Sales of Electronic Package Metal Heat Sink by Type (2024-2029)

11.1.2 Global Electronic Package Metal Heat Sink Market Size Forecast by Type (2024-2029)

11.1.3 Global Forecasted Price of Electronic Package Metal Heat Sink by Type (2024-2029)

11.2 Global Electronic Package Metal Heat Sink Market Forecast by Application (2024-2029)

11.2.1 Global Electronic Package Metal Heat Sink Sales (K Units) Forecast by Application

11.2.2 Global Electronic Package Metal Heat Sink Market Size (M USD) Forecast by Application (2024-2029)

12 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Electronic Package Metal Heat Sink Market Size Comparison by Region (M USD)

Table 5. Global Electronic Package Metal Heat Sink Sales (K Units) by Manufacturers (2018-2023)

Table 6. Global Electronic Package Metal Heat Sink Sales Market Share by Manufacturers (2018-2023)

Table 7. Global Electronic Package Metal Heat Sink Revenue (M USD) by Manufacturers (2018-2023)

Table 8. Global Electronic Package Metal Heat Sink Revenue Share by Manufacturers (2018-2023)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Electronic Package Metal Heat Sink as of 2022)

Table 10. Global Market Electronic Package Metal Heat Sink Average Price (USD/Unit) of Key Manufacturers (2018-2023)

Table 11. Manufacturers Electronic Package Metal Heat Sink Sales Sites and Area Served

Table 12. Manufacturers Electronic Package Metal Heat Sink Product Type

Table 13. Global Electronic Package Metal Heat Sink Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Electronic Package Metal Heat Sink

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Electronic Package Metal Heat Sink Market Challenges

Table 22. Market Restraints

Table 23. Global Electronic Package Metal Heat Sink Sales by Type (K Units)

Table 24. Global Electronic Package Metal Heat Sink Market Size by Type (M USD)

Table 25. Global Electronic Package Metal Heat Sink Sales (K Units) by Type (2018-2023)

Table 26. Global Electronic Package Metal Heat Sink Sales Market Share by Type (2018-2023)

Table 27. Global Electronic Package Metal Heat Sink Market Size (M USD) by Type (2018-2023)

Table 28. Global Electronic Package Metal Heat Sink Market Size Share by Type (2018-2023)

Table 29. Global Electronic Package Metal Heat Sink Price (USD/Unit) by Type (2018-2023)

Table 30. Global Electronic Package Metal Heat Sink Sales (K Units) by Application

Table 31. Global Electronic Package Metal Heat Sink Market Size by Application

Table 32. Global Electronic Package Metal Heat Sink Sales by Application (2018-2023) & (K Units)

Table 33. Global Electronic Package Metal Heat Sink Sales Market Share by Application (2018-2023)

Table 34. Global Electronic Package Metal Heat Sink Sales by Application (2018-2023) & (M USD)

Table 35. Global Electronic Package Metal Heat Sink Market Share by Application (2018-2023)

Table 36. Global Electronic Package Metal Heat Sink Sales Growth Rate by Application (2018-2023)

Table 37. Global Electronic Package Metal Heat Sink Sales by Region (2018-2023) & (K Units)

Table 38. Global Electronic Package Metal Heat Sink Sales Market Share by Region (2018-2023)

Table 39. North America Electronic Package Metal Heat Sink Sales by Country (2018-2023) & (K Units)

Table 40. Europe Electronic Package Metal Heat Sink Sales by Country (2018-2023) & (K Units)

Table 41. Asia Pacific Electronic Package Metal Heat Sink Sales by Region (2018-2023) & (K Units)

Table 42. South America Electronic Package Metal Heat Sink Sales by Country (2018-2023) & (K Units)

Table 43. Middle East and Africa Electronic Package Metal Heat Sink Sales by Region (2018-2023) & (K Units)

Table 44. Rogers Germany Electronic Package Metal Heat Sink Basic Information

Table 45. Rogers Germany Electronic Package Metal Heat Sink Product Overview

Table 46. Rogers Germany Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)

Table 47. Rogers Germany Business Overview

- Table 48. Rogers Germany Electronic Package Metal Heat Sink SWOT Analysis
- Table 49. Rogers Germany Recent Developments
- Table 50. Tecnisco Electronic Package Metal Heat Sink Basic Information
- Table 51. Tecnisco Electronic Package Metal Heat Sink Product Overview
- Table 52. Tecnisco Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 53. Tecnisco Business Overview
- Table 54. Tecnisco Electronic Package Metal Heat Sink SWOT Analysis
- Table 55. Tecnisco Recent Developments
- Table 56. Heat Sinks Tungsten Molybdenum Science and Technology Electronic Package Metal Heat Sink Basic Information
- Table 57. Heat Sinks Tungsten Molybdenum Science and Technology Electronic Package Metal Heat Sink Product Overview
- Table 58. Heat Sinks Tungsten Molybdenum Science and Technology Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 59. Heat Sinks Tungsten Molybdenum Science and Technology Business Overview
- Table 60. Heat Sinks Tungsten Molybdenum Science and Technology Electronic Package Metal Heat Sink SWOT Analysis
- Table 61. Heat Sinks Tungsten Molybdenum Science and Technology Recent Developments
- Table 62. Chengdu Eigen Material Technology Electronic Package Metal Heat Sink Basic Information
- Table 63. Chengdu Eigen Material Technology Electronic Package Metal Heat Sink Product Overview
- Table 64. Chengdu Eigen Material Technology Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 65. Chengdu Eigen Material Technology Business Overview
- Table 66. Chengdu Eigen Material Technology Electronic Package Metal Heat Sink SWOT Analysis
- Table 67. Chengdu Eigen Material Technology Recent Developments
- Table 68. Luoyang Wochi Electronic Package Metal Heat Sink Basic Information
- Table 69. Luoyang Wochi Electronic Package Metal Heat Sink Product Overview
- Table 70. Luoyang Wochi Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 71. Luoyang Wochi Business Overview
- Table 72. Luoyang Wochi Electronic Package Metal Heat Sink SWOT Analysis
- Table 73. Luoyang Wochi Recent Developments

- Table 74. Citizen Electronics Electronic Package Metal Heat Sink Basic Information
- Table 75. Citizen Electronics Electronic Package Metal Heat Sink Product Overview
- Table 76. Citizen Electronics Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 77. Citizen Electronics Business Overview
- Table 78. Citizen Electronics Recent Developments
- Table 79. HOSO Metal Electronic Package Metal Heat Sink Basic Information
- Table 80. HOSO Metal Electronic Package Metal Heat Sink Product Overview
- Table 81. HOSO Metal Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 82. HOSO Metal Business Overview
- Table 83. HOSO Metal Recent Developments
- Table 84. AMETEK Metals Wallingford Electronic Package Metal Heat Sink Basic Information
- Table 85. AMETEK Metals Wallingford Electronic Package Metal Heat Sink Product Overview
- Table 86. AMETEK Metals Wallingford Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 87. AMETEK Metals Wallingford Business Overview
- Table 88. AMETEK Metals Wallingford Recent Developments
- Table 89. Hermetic Solutions Electronic Package Metal Heat Sink Basic Information
- Table 90. Hermetic Solutions Electronic Package Metal Heat Sink Product Overview
- Table 91. Hermetic Solutions Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 92. Hermetic Solutions Business Overview
- Table 93. Hermetic Solutions Recent Developments
- Table 94. Element Six Electronic Package Metal Heat Sink Basic Information
- Table 95. Element Six Electronic Package Metal Heat Sink Product Overview
- Table 96. Element Six Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 97. Element Six Business Overview
- Table 98. Element Six Recent Developments
- Table 99. Xinlong Metal Electrical Electronic Package Metal Heat Sink Basic Information
- Table 100. Xinlong Metal Electrical Electronic Package Metal Heat Sink Product Overview
- Table 101. Xinlong Metal Electrical Electronic Package Metal Heat Sink Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2018-2023)
- Table 102. Xinlong Metal Electrical Business Overview

Table 103. Xinlong Metal Electrical Recent Developments

Table 104. Global Electronic Package Metal Heat Sink Sales Forecast by Region (2024-2029) & (K Units)

Table 105. Global Electronic Package Metal Heat Sink Market Size Forecast by Region (2024-2029) & (M USD)

Table 106. North America Electronic Package Metal Heat Sink Sales Forecast by Country (2024-2029) & (K Units)

Table 107. North America Electronic Package Metal Heat Sink Market Size Forecast by Country (2024-2029) & (M USD)

Table 108. Europe Electronic Package Metal Heat Sink Sales Forecast by Country (2024-2029) & (K Units)

Table 109. Europe Electronic Package Metal Heat Sink Market Size Forecast by Country (2024-2029) & (M USD)

Table 110. Asia Pacific Electronic Package Metal Heat Sink Sales Forecast by Region (2024-2029) & (K Units)

Table 111. Asia Pacific Electronic Package Metal Heat Sink Market Size Forecast by Region (2024-2029) & (M USD)

Table 112. South America Electronic Package Metal Heat Sink Sales Forecast by Country (2024-2029) & (K Units)

Table 113. South America Electronic Package Metal Heat Sink Market Size Forecast by Country (2024-2029) & (M USD)

Table 114. Middle East and Africa Electronic Package Metal Heat Sink Consumption Forecast by Country (2024-2029) & (Units)

Table 115. Middle East and Africa Electronic Package Metal Heat Sink Market Size Forecast by Country (2024-2029) & (M USD)

Table 116. Global Electronic Package Metal Heat Sink Sales Forecast by Type (2024-2029) & (K Units)

Table 117. Global Electronic Package Metal Heat Sink Market Size Forecast by Type (2024-2029) & (M USD)

Table 118. Global Electronic Package Metal Heat Sink Price Forecast by Type (2024-2029) & (USD/Unit)

Table 119. Global Electronic Package Metal Heat Sink Sales (K Units) Forecast by Application (2024-2029)

Table 120. Global Electronic Package Metal Heat Sink Market Size Forecast by Application (2024-2029) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Electronic Package Metal Heat Sink
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Electronic Package Metal Heat Sink Market Size (M USD), 2018-2029
- Figure 5. Global Electronic Package Metal Heat Sink Market Size (M USD) (2018-2029)
- Figure 6. Global Electronic Package Metal Heat Sink Sales (K Units) & (2018-2029)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Electronic Package Metal Heat Sink Market Size by Country (M USD)
- Figure 11. Electronic Package Metal Heat Sink Sales Share by Manufacturers in 2022
- Figure 12. Global Electronic Package Metal Heat Sink Revenue Share by Manufacturers in 2022
- Figure 13. Electronic Package Metal Heat Sink Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2018 Vs 2022
- Figure 14. Global Market Electronic Package Metal Heat Sink Average Price (USD/Unit) of Key Manufacturers in 2022
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Electronic Package Metal Heat Sink Revenue in 2022
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Electronic Package Metal Heat Sink Market Share by Type
- Figure 18. Sales Market Share of Electronic Package Metal Heat Sink by Type (2018-2023)
- Figure 19. Sales Market Share of Electronic Package Metal Heat Sink by Type in 2022
- Figure 20. Market Size Share of Electronic Package Metal Heat Sink by Type (2018-2023)
- Figure 21. Market Size Market Share of Electronic Package Metal Heat Sink by Type in 2022
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global Electronic Package Metal Heat Sink Market Share by Application
- Figure 24. Global Electronic Package Metal Heat Sink Sales Market Share by Application (2018-2023)
- Figure 25. Global Electronic Package Metal Heat Sink Sales Market Share by Application in 2022
- Figure 26. Global Electronic Package Metal Heat Sink Market Share by Application

(2018-2023)

Figure 27. Global Electronic Package Metal Heat Sink Market Share by Application in 2022

Figure 28. Global Electronic Package Metal Heat Sink Sales Growth Rate by Application (2018-2023)

Figure 29. Global Electronic Package Metal Heat Sink Sales Market Share by Region (2018-2023)

Figure 30. North America Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 31. North America Electronic Package Metal Heat Sink Sales Market Share by Country in 2022

Figure 32. U.S. Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 33. Canada Electronic Package Metal Heat Sink Sales (K Units) and Growth Rate (2018-2023)

Figure 34. Mexico Electronic Package Metal Heat Sink Sales (Units) and Growth Rate (2018-2023)

Figure 35. Europe Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 36. Europe Electronic Package Metal Heat Sink Sales Market Share by Country in 2022

Figure 37. Germany Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 38. France Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 39. U.K. Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 40. Italy Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 41. Russia Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 42. Asia Pacific Electronic Package Metal Heat Sink Sales and Growth Rate (K Units)

Figure 43. Asia Pacific Electronic Package Metal Heat Sink Sales Market Share by Region in 2022

Figure 44. China Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 45. Japan Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 46. South Korea Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 47. India Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 48. Southeast Asia Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 49. South America Electronic Package Metal Heat Sink Sales and Growth Rate (K Units)

Figure 50. South America Electronic Package Metal Heat Sink Sales Market Share by Country in 2022

Figure 51. Brazil Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 52. Argentina Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 53. Columbia Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 54. Middle East and Africa Electronic Package Metal Heat Sink Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa Electronic Package Metal Heat Sink Sales Market Share by Region in 2022

Figure 56. Saudi Arabia Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 57. UAE Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 58. Egypt Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 59. Nigeria Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 60. South Africa Electronic Package Metal Heat Sink Sales and Growth Rate (2018-2023) & (K Units)

Figure 61. Global Electronic Package Metal Heat Sink Sales Forecast by Volume (2018-2029) & (K Units)

Figure 62. Global Electronic Package Metal Heat Sink Market Size Forecast by Value (2018-2029) & (M USD)

Figure 63. Global Electronic Package Metal Heat Sink Sales Market Share Forecast by Type (2024-2029)

Figure 64. Global Electronic Package Metal Heat Sink Market Share Forecast by Type (2024-2029)

Figure 65. Global Electronic Package Metal Heat Sink Sales Forecast by Application

(2024-2029)

Figure 66. Global Electronic Package Metal Heat Sink Market Share Forecast by Application (2024-2029)

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