

Global 2.5D MEMS Probe Card Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 2.5D MEMS Probe Card market size was valued at US\$ 881 million in 2025 and is forecast to a readjusted size of US\$ 1501 million by 2032 with a CAGR of 8.0% during review period.

In 2025, global 2.5D MEMS probe card production capacity is 15,000 units, with production reached approximately 10,300 units, with an average global market price of around US\$ 85,000 per unit. The market gross margin is mainly 35%-50%. The 2.5D MEMS probe card is a high-end microelectromechanical system (MEMS) probe card designed specifically for testing chips using 2.5D advanced packaging technology. Its core function is to simultaneously contact microbumps or through-silicon vias (TSVs) on the interposer using a high-density, high-precision three-dimensional microprobe structure, enabling wafer-level testing of the electrical performance, interoperability, and reliability of heterogeneous integrated chips (such as CPUs and HBMs). It addresses the challenges of smaller pitches, more complex layouts, and higher signal integrity requirements that traditional 2D probe cards cannot handle. The supply chain for 2.5D MEMS probe cards is a highly specialized collaborative network. The upstream consists of semiconductor material and equipment suppliers, providing critical items like silicon wafers, ceramic substrates, specialized coating materials, and lithography machines. The midstream is comprised of core probe card manufacturers and integrators, who utilize MEMS processes to fabricate micro-needles and precisely assemble them onto wiring substrates to complete the units. The downstream directly serves OSAT and foundries, acting as an indispensable test interface for their advanced packaging and testing processes.

The global 2.5D MEMS probe card market is poised for rapid growth, driven by the

iterative advancements in AI, high-performance computing, and advanced packaging technologies. This product, with its ability to handle the complex testing requirements of high-density heterogeneous integration, has become a key enabling tool for overcoming the bottlenecks of Moore's Law. Regionally, the North American market, driven by its leading chip design companies and tech giants in the AI race, will continue to generate cutting-edge demand and drive technological innovation. The Asia-Pacific market, as a global semiconductor manufacturing hub, is accelerating the deployment of advanced packaging and testing capacity to support and promote the large-scale application of this technology. The European market is also actively following suit, driven by high-end demand from automotive electronics and industrial applications. This technology presents extremely high barriers to entry, and the competitive landscape is dominated by a few international giants. Overall, the 2.5D MEMS probe card market is transitioning from technology verification to large-scale commercialization. Its performance will directly determine the pace of R&D and mass production of next-generation computing platforms, making its strategic value increasingly prominent.

This report is a detailed and comprehensive analysis for global 2.5D MEMS Probe Card market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 2.5D MEMS Probe Card market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 2.5D MEMS Probe Card market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 2.5D MEMS Probe Card market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 2.5D MEMS Probe Card market shares of main players, shipments in revenue (\$

Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 2.5D MEMS Probe Card

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 2.5D MEMS Probe Card market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FormFactor, Technoprobe, MJC, JEM, TSE CO., Ltd., CHPT, Protec Mems Technology Inc.?, MPI Corporation?, Nidec SV Probe

Pte. Ltd, Korea Instrument

CO., Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

2.5D MEMS Probe Card market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

MEMS Probe Card

Vertical Probe Card

Cantilever Probe Card

Market segment by Substrate Material

Silicon

Glass/Quartz

Ceramic

Organic PCB

Others

Market segment by Chip Type

Logic IC

Memory

RF

Advanced Packaging

Market segment by Application

High-Performance Computing and AI Chips

High-End Memory

Networking and Communication Chips

Heterogeneous Chiplet Integration

Major players covered

FormFactor

Technoprobe

MJC

JEM

TSE CO., Ltd.

CHPT

Protec Mems Technology Inc.?

MPI Corporation?

Nidec SV Probe

Pte. Ltd

Korea Instrument

CO., Ltd

STAr Technologies, Inc.?

Synergie CAD

Group SAS

Will-Technology

CO., Ltd

Protec Mems

Technology Inc

??Strongtest Semiconductor?

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 2.5D MEMS Probe Card product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 2.5D MEMS Probe Card, with price, sales quantity, revenue, and global market share of 2.5D MEMS Probe Card from 2021 to 2026.

Chapter 3, the 2.5D MEMS Probe Card competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 2.5D MEMS Probe Card breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 2.5D MEMS Probe Card market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 2.5D MEMS Probe Card.

Chapter 14 and 15, to describe 2.5D MEMS Probe Card sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global 2.5D MEMS Probe Card Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 MEMS Probe Card

1.3.3 Vertical Probe Card

1.3.4 Cantilever Probe Card

1.4 Market Analysis by Substrate Material

1.4.1 Overview: Global 2.5D MEMS Probe Card Consumption Value by Substrate Material: 2021 Versus 2025 Versus 2032

1.4.2 Silicon

1.4.3 Glass/Quartz

1.4.4 Ceramic

1.4.5 Organic PCB

1.4.6 Others

1.5 Market Analysis by Chip Type

1.5.1 Overview: Global 2.5D MEMS Probe Card Consumption Value by Chip Type: 2021 Versus 2025 Versus 2032

1.5.2 Logic IC

1.5.3 Memory

1.5.4 RF

1.5.5 Advanced Packaging

1.6 Market Analysis by Application

1.6.1 Overview: Global 2.5D MEMS Probe Card Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 High-Performance Computing and AI Chips

1.6.3 High-End Memory

1.6.4 Networking and Communication Chips

1.6.5 Heterogeneous Chiplet Integration

1.7 Global 2.5D MEMS Probe Card Market Size & Forecast

1.7.1 Global 2.5D MEMS Probe Card Consumption Value (2021 & 2025 & 2032)

1.7.2 Global 2.5D MEMS Probe Card Sales Quantity (2021-2032)

1.7.3 Global 2.5D MEMS Probe Card Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 FormFactor

2.1.1 FormFactor Details

2.1.2 FormFactor Major Business

2.1.3 FormFactor 2.5D MEMS Probe Card Product and Services

2.1.4 FormFactor 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 FormFactor Recent Developments/Updates

2.2 Technoprobe

2.2.1 Technoprobe Details

2.2.2 Technoprobe Major Business

2.2.3 Technoprobe 2.5D MEMS Probe Card Product and Services

2.2.4 Technoprobe 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Technoprobe Recent Developments/Updates

2.3 MJC

2.3.1 MJC Details

2.3.2 MJC Major Business

2.3.3 MJC 2.5D MEMS Probe Card Product and Services

2.3.4 MJC 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 MJC Recent Developments/Updates

2.4 JEM

2.4.1 JEM Details

2.4.2 JEM Major Business

2.4.3 JEM 2.5D MEMS Probe Card Product and Services

2.4.4 JEM 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 JEM Recent Developments/Updates

2.5 TSE CO., Ltd.

2.5.1 TSE CO., Ltd. Details

2.5.2 TSE CO., Ltd. Major Business

2.5.3 TSE CO., Ltd. 2.5D MEMS Probe Card Product and Services

2.5.4 TSE CO., Ltd. 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 TSE CO., Ltd. Recent Developments/Updates

2.6 CHPT

2.6.1 CHPT Details

- 2.6.2 CHPT Major Business
- 2.6.3 CHPT 2.5D MEMS Probe Card Product and Services
- 2.6.4 CHPT 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 CHPT Recent Developments/Updates
- 2.7 Protec Mems Technology Inc.?
 - 2.7.1 Protec Mems Technology Inc.? Details
 - 2.7.2 Protec Mems Technology Inc.? Major Business
 - 2.7.3 Protec Mems Technology Inc.? 2.5D MEMS Probe Card Product and Services
 - 2.7.4 Protec Mems Technology Inc.? 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Protec Mems Technology Inc.? Recent Developments/Updates
- 2.8 MPI Corporation?
 - 2.8.1 MPI Corporation? Details
 - 2.8.2 MPI Corporation? Major Business
 - 2.8.3 MPI Corporation? 2.5D MEMS Probe Card Product and Services
 - 2.8.4 MPI Corporation? 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 MPI Corporation? Recent Developments/Updates
- 2.9 Nidec SV Probe Pte. Ltd
 - 2.9.1 Nidec SV Probe Pte. Ltd Details
 - 2.9.2 Nidec SV Probe Pte. Ltd Major Business
 - 2.9.3 Nidec SV Probe Pte. Ltd 2.5D MEMS Probe Card Product and Services
 - 2.9.4 Nidec SV Probe Pte. Ltd 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Nidec SV Probe Pte. Ltd Recent Developments/Updates
- 2.10 Korea Instrument CO., Ltd
 - 2.10.1 Korea Instrument CO., Ltd Details
 - 2.10.2 Korea Instrument CO., Ltd Major Business
 - 2.10.3 Korea Instrument

CO., Ltd 2.5D MEMS Probe Card Product and Services

2.10.4 Korea Instrument

CO., Ltd 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Korea Instrument

CO., Ltd Recent Developments/Updates

2.11 STAr Technologies, Inc.?

2.11.1 STAr Technologies, Inc.? Details

2.11.2 STAr Technologies, Inc.? Major Business

2.11.3 STAr Technologies, Inc.? 2.5D MEMS Probe Card Product and Services

2.11.4 STAr Technologies, Inc.? 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 STAr Technologies, Inc.? Recent Developments/Updates

2.12 Synergie CAD

Group SAS

2.12.1 Synergie CAD

Group SAS Details

2.12.2 Synergie CAD

Group SAS Major Business

2.12.3 Synergie CAD

Group SAS 2.5D MEMS Probe Card Product and Services

2.12.4 Synergie CAD

Group SAS 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Synergie CAD

Group SAS Recent Developments/Updates

2.13 Will-Technology

CO., Ltd

2.13.1 Will-Technology

CO., Ltd Details

2.13.2 Will-Technology

CO., Ltd Major Business

2.13.3 Will-Technology

CO., Ltd 2.5D MEMS Probe Card Product and Services

2.13.4 Will-Technology

CO., Ltd 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Will-Technology

CO., Ltd Recent Developments/Updates

2.14 Protec Mems

Technology Inc

2.14.1 Protec Mems

Technology Inc Details

2.14.2 Protec Mems

Technology Inc Major Business

2.14.3 Protec Mems

Technology Inc 2.5D MEMS Probe Card Product and Services

2.14.4 Protec Mems

Technology Inc 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Protec Mems

Technology Inc Recent Developments/Updates

2.15 ??Strongtest Semiconductor?

2.15.1 ??Strongtest Semiconductor? Details

2.15.2 ??Strongtest Semiconductor? Major Business

2.15.3 ??Strongtest Semiconductor? 2.5D MEMS Probe Card Product and Services

2.15.4 ??Strongtest Semiconductor? 2.5D MEMS Probe Card Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 ??Strongtest Semiconductor? Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: 2.5D MEMS PROBE CARD BY MANUFACTURER

3.1 Global 2.5D MEMS Probe Card Sales Quantity by Manufacturer (2021-2026)

3.2 Global 2.5D MEMS Probe Card Revenue by Manufacturer (2021-2026)

3.3 Global 2.5D MEMS Probe Card Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of 2.5D MEMS Probe Card by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 2.5D MEMS Probe Card Manufacturer Market Share in 2025

3.4.3 Top 6 2.5D MEMS Probe Card Manufacturer Market Share in 2025

3.5 2.5D MEMS Probe Card Market: Overall Company Footprint Analysis

3.5.1 2.5D MEMS Probe Card Market: Region Footprint

3.5.2 2.5D MEMS Probe Card Market: Company Product Type Footprint

3.5.3 2.5D MEMS Probe Card Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global 2.5D MEMS Probe Card Market Size by Region

4.1.1 Global 2.5D MEMS Probe Card Sales Quantity by Region (2021-2032)

4.1.2 Global 2.5D MEMS Probe Card Consumption Value by Region (2021-2032)

4.1.3 Global 2.5D MEMS Probe Card Average Price by Region (2021-2032)

4.2 North America 2.5D MEMS Probe Card Consumption Value (2021-2032)

4.3 Europe 2.5D MEMS Probe Card Consumption Value (2021-2032)

4.4 Asia-Pacific 2.5D MEMS Probe Card Consumption Value (2021-2032)

4.5 South America 2.5D MEMS Probe Card Consumption Value (2021-2032)

4.6 Middle East & Africa 2.5D MEMS Probe Card Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global 2.5D MEMS Probe Card Sales Quantity by Type (2021-2032)

5.2 Global 2.5D MEMS Probe Card Consumption Value by Type (2021-2032)

5.3 Global 2.5D MEMS Probe Card Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global 2.5D MEMS Probe Card Sales Quantity by Application (2021-2032)

6.2 Global 2.5D MEMS Probe Card Consumption Value by Application (2021-2032)

6.3 Global 2.5D MEMS Probe Card Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America 2.5D MEMS Probe Card Sales Quantity by Type (2021-2032)

7.2 North America 2.5D MEMS Probe Card Sales Quantity by Application (2021-2032)

7.3 North America 2.5D MEMS Probe Card Market Size by Country

7.3.1 North America 2.5D MEMS Probe Card Sales Quantity by Country (2021-2032)

7.3.2 North America 2.5D MEMS Probe Card Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe 2.5D MEMS Probe Card Sales Quantity by Type (2021-2032)

8.2 Europe 2.5D MEMS Probe Card Sales Quantity by Application (2021-2032)

8.3 Europe 2.5D MEMS Probe Card Market Size by Country

8.3.1 Europe 2.5D MEMS Probe Card Sales Quantity by Country (2021-2032)

8.3.2 Europe 2.5D MEMS Probe Card Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific 2.5D MEMS Probe Card Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific 2.5D MEMS Probe Card Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific 2.5D MEMS Probe Card Market Size by Region

9.3.1 Asia-Pacific 2.5D MEMS Probe Card Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific 2.5D MEMS Probe Card Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America 2.5D MEMS Probe Card Sales Quantity by Type (2021-2032)

10.2 South America 2.5D MEMS Probe Card Sales Quantity by Application (2021-2032)

10.3 South America 2.5D MEMS Probe Card Market Size by Country

10.3.1 South America 2.5D MEMS Probe Card Sales Quantity by Country (2021-2032)

10.3.2 South America 2.5D MEMS Probe Card Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa 2.5D MEMS Probe Card Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa 2.5D MEMS Probe Card Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa 2.5D MEMS Probe Card Market Size by Country

11.3.1 Middle East & Africa 2.5D MEMS Probe Card Sales Quantity by Country
(2021-2032)

11.3.2 Middle East & Africa 2.5D MEMS Probe Card Consumption Value by Country
(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 2.5D MEMS Probe Card Market Drivers

12.2 2.5D MEMS Probe Card Market Restraints

12.3 2.5D MEMS Probe Card Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of 2.5D MEMS Probe Card and Key Manufacturers

13.2 Manufacturing Costs Percentage of 2.5D MEMS Probe Card

13.3 2.5D MEMS Probe Card Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 2.5D MEMS Probe Card Typical Distributors

14.3 2.5D MEMS Probe Card Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global 2.5D MEMS Probe Card Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global 2.5D MEMS Probe Card Consumption Value by Substrate Material, (USD Million), 2021 & 2025 & 2032

Table 3. Global 2.5D MEMS Probe Card Consumption Value by Chip Type, (USD Million), 2021 & 2025 & 2032

Table 4. Global 2.5D MEMS Probe Card Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. FormFactor Basic Information, Manufacturing Base and Competitors

Table 6. FormFactor Major Business

Table 7. FormFactor 2.5D MEMS Probe Card Product and Services

Table 8. FormFactor 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. FormFactor Recent Developments/Updates

Table 10. Technoprobe Basic Information, Manufacturing Base and Competitors

Table 11. Technoprobe Major Business

Table 12. Technoprobe 2.5D MEMS Probe Card Product and Services

Table 13. Technoprobe 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Technoprobe Recent Developments/Updates

Table 15. MJC Basic Information, Manufacturing Base and Competitors

Table 16. MJC Major Business

Table 17. MJC 2.5D MEMS Probe Card Product and Services

Table 18. MJC 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. MJC Recent Developments/Updates

Table 20. JEM Basic Information, Manufacturing Base and Competitors

Table 21. JEM Major Business

Table 22. JEM 2.5D MEMS Probe Card Product and Services

Table 23. JEM 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. JEM Recent Developments/Updates

Table 25. TSE CO., Ltd. Basic Information, Manufacturing Base and Competitors

Table 26. TSE CO., Ltd. Major Business

Table 27. TSE CO., Ltd. 2.5D MEMS Probe Card Product and Services

Table 28. TSE CO., Ltd. 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. TSE CO., Ltd. Recent Developments/Updates

Table 30. CHPT Basic Information, Manufacturing Base and Competitors

Table 31. CHPT Major Business

Table 32. CHPT 2.5D MEMS Probe Card Product and Services

Table 33. CHPT 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. CHPT Recent Developments/Updates

Table 35. Protec Mems Technology Inc.? Basic Information, Manufacturing Base and Competitors

Table 36. Protec Mems Technology Inc.? Major Business

Table 37. Protec Mems Technology Inc.? 2.5D MEMS Probe Card Product and Services

Table 38. Protec Mems Technology Inc.? 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Protec Mems Technology Inc.? Recent Developments/Updates

Table 40. MPI Corporation? Basic Information, Manufacturing Base and Competitors

Table 41. MPI Corporation? Major Business

Table 42. MPI Corporation? 2.5D MEMS Probe Card Product and Services

Table 43. MPI Corporation? 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. MPI Corporation? Recent Developments/Updates

Table 45. Nidec SV Probe

Pte. Ltd Basic Information, Manufacturing Base and Competitors

Table 46. Nidec SV Probe

Pte. Ltd Major Business

Table 47. Nidec SV Probe

Pte. Ltd 2.5D MEMS Probe Card Product and Services

Table 48. Nidec SV Probe

Pte. Ltd 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Nidec SV Probe

Pte. Ltd Recent Developments/Updates

Table 50. Korea Instrument

CO., Ltd Basic Information, Manufacturing Base and Competitors

Table 51. Korea Instrument

CO., Ltd Major Business

Table 52. Korea Instrument

CO., Ltd 2.5D MEMS Probe Card Product and Services

Table 53. Korea Instrument

CO., Ltd 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Korea Instrument

CO., Ltd Recent Developments/Updates

Table 55. STAr Technologies, Inc.? Basic Information, Manufacturing Base and Competitors

Table 56. STAr Technologies, Inc.? Major Business

Table 57. STAr Technologies, Inc.? 2.5D MEMS Probe Card Product and Services

Table 58. STAr Technologies, Inc.? 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. STAr Technologies, Inc.? Recent Developments/Updates

Table 60. Synergie CAD

Group SAS Basic Information, Manufacturing Base and Competitors

Table 61. Synergie CAD

Group SAS Major Business

Table 62. Synergie CAD

Group SAS 2.5D MEMS Probe Card Product and Services

Table 63. Synergie CAD

Group SAS 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Synergie CAD

Group SAS Recent Developments/Updates

Table 65. Will-Technology

CO., Ltd Basic Information, Manufacturing Base and Competitors

Table 66. Will-Technology

CO., Ltd Major Business

Table 67. Will-Technology

CO., Ltd 2.5D MEMS Probe Card Product and Services

Table 68. Will-Technology

CO., Ltd 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Will-Technology

CO., Ltd Recent Developments/Updates

Table 70. Protec Mems

Technology Inc Basic Information, Manufacturing Base and Competitors

Table 71. Protec Mems

Technology Inc Major Business

Table 72. Protec Mems

Technology Inc 2.5D MEMS Probe Card Product and Services

Table 73. Protec Mems

Technology Inc 2.5D MEMS Probe Card Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Protec Mems

Technology Inc Recent Developments/Updates

Table 75. ??Strongtest Semiconductor? Basic Information, Manufacturing Base and Competitors

Table 76. ??Strongtest Semiconductor? Major Business

Table 77. ??Strongtest Semiconductor? 2.5D MEMS Probe Card Product and Services

Table 78. ??Strongtest Semiconductor? 2.5D MEMS Probe Card Sales Quantity (K

Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. ??Strongtest Semiconductor? Recent Developments/Updates

Table 80. Global 2.5D MEMS Probe Card Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 81. Global 2.5D MEMS Probe Card Revenue by Manufacturer (2021-2026) & (USD Million)

Table 82. Global 2.5D MEMS Probe Card Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 83. Market Position of Manufacturers in 2.5D MEMS Probe Card, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 84. Head Office and 2.5D MEMS Probe Card Production Site of Key Manufacturer

Table 85. 2.5D MEMS Probe Card Market: Company Product Type Footprint

Table 86. 2.5D MEMS Probe Card Market: Company Product Application Footprint

Table 87. 2.5D MEMS Probe Card New Market Entrants and Barriers to Market Entry

Table 88. 2.5D MEMS Probe Card Mergers, Acquisition, Agreements, and Collaborations

Table 89. Global 2.5D MEMS Probe Card Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 90. Global 2.5D MEMS Probe Card Sales Quantity by Region (2021-2026) & (K Units)

Table 91. Global 2.5D MEMS Probe Card Sales Quantity by Region (2027-2032) & (K Units)

Table 92. Global 2.5D MEMS Probe Card Consumption Value by Region (2021-2026) & (USD Million)

Table 93. Global 2.5D MEMS Probe Card Consumption Value by Region (2027-2032) & (USD Million)

Table 94. Global 2.5D MEMS Probe Card Average Price by Region (2021-2026) & (US\$/Unit)

Table 95. Global 2.5D MEMS Probe Card Average Price by Region (2027-2032) & (US\$/Unit)

Table 96. Global 2.5D MEMS Probe Card Sales Quantity by Type (2021-2026) & (K Units)

Table 97. Global 2.5D MEMS Probe Card Sales Quantity by Type (2027-2032) & (K Units)

Table 98. Global 2.5D MEMS Probe Card Consumption Value by Type (2021-2026) & (USD Million)

Table 99. Global 2.5D MEMS Probe Card Consumption Value by Type (2027-2032) &

(USD Million)

Table 100. Global 2.5D MEMS Probe Card Average Price by Type (2021-2026) & (US\$/Unit)

Table 101. Global 2.5D MEMS Probe Card Average Price by Type (2027-2032) & (US\$/Unit)

Table 102. Global 2.5D MEMS Probe Card Sales Quantity by Application (2021-2026) & (K Units)

Table 103. Global 2.5D MEMS Probe Card Sales Quantity by Application (2027-2032) & (K Units)

Table 104. Global 2.5D MEMS Probe Card Consumption Value by Application (2021-2026) & (USD Million)

Table 105. Global 2.5D MEMS Probe Card Consumption Value by Application (2027-2032) & (USD Million)

Table 106. Global 2.5D MEMS Probe Card Average Price by Application (2021-2026) & (US\$/Unit)

Table 107. Global 2.5D MEMS Probe Card Average Price by Application (2027-2032) & (US\$/Unit)

Table 108. North America 2.5D MEMS Probe Card Sales Quantity by Type (2021-2026) & (K Units)

Table 109. North America 2.5D MEMS Probe Card Sales Quantity by Type (2027-2032) & (K Units)

Table 110. North America 2.5D MEMS Probe Card Sales Quantity by Application (2021-2026) & (K Units)

Table 111. North America 2.5D MEMS Probe Card Sales Quantity by Application (2027-2032) & (K Units)

Table 112. North America 2.5D MEMS Probe Card Sales Quantity by Country (2021-2026) & (K Units)

Table 113. North America 2.5D MEMS Probe Card Sales Quantity by Country (2027-2032) & (K Units)

Table 114. North America 2.5D MEMS Probe Card Consumption Value by Country (2021-2026) & (USD Million)

Table 115. North America 2.5D MEMS Probe Card Consumption Value by Country (2027-2032) & (USD Million)

Table 116. Europe 2.5D MEMS Probe Card Sales Quantity by Type (2021-2026) & (K Units)

Table 117. Europe 2.5D MEMS Probe Card Sales Quantity by Type (2027-2032) & (K Units)

Table 118. Europe 2.5D MEMS Probe Card Sales Quantity by Application (2021-2026) & (K Units)

Table 119. Europe 2.5D MEMS Probe Card Sales Quantity by Application (2027-2032) & (K Units)

Table 120. Europe 2.5D MEMS Probe Card Sales Quantity by Country (2021-2026) & (K Units)

Table 121. Europe 2.5D MEMS Probe Card Sales Quantity by Country (2027-2032) & (K Units)

Table 122. Europe 2.5D MEMS Probe Card Consumption Value by Country (2021-2026) & (USD Million)

Table 123. Europe 2.5D MEMS Probe Card Consumption Value by Country (2027-2032) & (USD Million)

Table 124. Asia-Pacific 2.5D MEMS Probe Card Sales Quantity by Type (2021-2026) & (K Units)

Table 125. Asia-Pacific 2.5D MEMS Probe Card Sales Quantity by Type (2027-2032) & (K Units)

Table 126. Asia-Pacific 2.5D MEMS Probe Card Sales Quantity by Application (2021-2026) & (K Units)

Table 127. Asia-Pacific 2.5D MEMS Probe Card Sales Quantity by Application (2027-2032) & (K Units)

Table 128. Asia-Pacific 2.5D MEMS Probe Card Sales Quantity by Region (2021-2026) & (K Units)

Table 129. Asia-Pacific 2.5D MEMS Probe Card Sales Quantity by Region (2027-2032) & (K Units)

Table 130. Asia-Pacific 2.5D MEMS Probe Card Consumption Value by Region (2021-2026) & (USD Million)

Table 131. Asia-Pacific 2.5D MEMS Probe Card Consumption Value by Region (2027-2032) & (USD Million)

Table 132. South America 2.5D MEMS Probe Card Sales Quantity by Type (2021-2026) & (K Units)

Table 133. South America 2.5D MEMS Probe Card Sales Quantity by Type (2027-2032) & (K Units)

Table 134. South America 2.5D MEMS Probe Card Sales Quantity by Application (2021-2026) & (K Units)

Table 135. South America 2.5D MEMS Probe Card Sales Quantity by Application (2027-2032) & (K Units)

Table 136. South America 2.5D MEMS Probe Card Sales Quantity by Country (2021-2026) & (K Units)

Table 137. South America 2.5D MEMS Probe Card Sales Quantity by Country (2027-2032) & (K Units)

Table 138. South America 2.5D MEMS Probe Card Consumption Value by Country

(2021-2026) & (USD Million)

Table 139. South America 2.5D MEMS Probe Card Consumption Value by Country (2027-2032) & (USD Million)

Table 140. Middle East & Africa 2.5D MEMS Probe Card Sales Quantity by Type (2021-2026) & (K Units)

Table 141. Middle East & Africa 2.5D MEMS Probe Card Sales Quantity by Type (2027-2032) & (K Units)

Table 142. Middle East & Africa 2.5D MEMS Probe Card Sales Quantity by Application (2021-2026) & (K Units)

Table 143. Middle East & Africa 2.5D MEMS Probe Card Sales Quantity by Application (2027-2032) & (K Units)

Table 144. Middle East & Africa 2.5D MEMS Probe Card Sales Quantity by Country (2021-2026) & (K Units)

Table 145. Middle East & Africa 2.5D MEMS Probe Card Sales Quantity by Country (2027-2032) & (K Units)

Table 146. Middle East & Africa 2.5D MEMS Probe Card Consumption Value by Country (2021-2026) & (USD Million)

Table 147. Middle East & Africa 2.5D MEMS Probe Card Consumption Value by Country (2027-2032) & (USD Million)

Table 148. 2.5D MEMS Probe Card Raw Material

Table 149. Key Manufacturers of 2.5D MEMS Probe Card Raw Materials

Table 150. 2.5D MEMS Probe Card Typical Distributors

Table 151. 2.5D MEMS Probe Card Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. 2.5D MEMS Probe Card Picture
- Figure 2. Global 2.5D MEMS Probe Card Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global 2.5D MEMS Probe Card Revenue Market Share by Type in 2025
- Figure 4. MEMS Probe Card Examples
- Figure 5. Vertical Probe Card Examples
- Figure 6. Cantilever Probe Card Examples
- Figure 7. Global 2.5D MEMS Probe Card Revenue by Substrate Material, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global 2.5D MEMS Probe Card Revenue Market Share by Substrate Material in 2025
- Figure 9. Silicon Examples
- Figure 10. Glass/Quartz Examples
- Figure 11. Ceramic Examples
- Figure 12. Organic PCB Examples
- Figure 13. Others Examples
- Figure 14. Global 2.5D MEMS Probe Card Revenue by Chip Type, (USD Million), 2021 & 2025 & 2032
- Figure 15. Global 2.5D MEMS Probe Card Revenue Market Share by Chip Type in 2025
- Figure 16. Logic IC Examples
- Figure 17. Memory Examples
- Figure 18. RF Examples
- Figure 19. Advanced Packaging Examples
- Figure 20. Global 2.5D MEMS Probe Card Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 21. Global 2.5D MEMS Probe Card Revenue Market Share by Application in 2025
- Figure 22. High-Performance Computing and AI Chips Examples
- Figure 23. High-End Memory Examples
- Figure 24. Networking and Communication Chips Examples
- Figure 25. Heterogeneous Chiplet Integration Examples
- Figure 26. Global 2.5D MEMS Probe Card Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 27. Global 2.5D MEMS Probe Card Consumption Value and Forecast

(2021-2032) & (USD Million)

Figure 28. Global 2.5D MEMS Probe Card Sales Quantity (2021-2032) & (K Units)

Figure 29. Global 2.5D MEMS Probe Card Price (2021-2032) & (US\$/Unit)

Figure 30. Global 2.5D MEMS Probe Card Sales Quantity Market Share by Manufacturer in 2025

Figure 31. Global 2.5D MEMS Probe Card Revenue Market Share by Manufacturer in 2025

Figure 32. Producer Shipments of 2.5D MEMS Probe Card by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 33. Top 3 2.5D MEMS Probe Card Manufacturer (Revenue) Market Share in 2025

Figure 34. Top 6 2.5D MEMS Probe Card Manufacturer (Revenue) Market Share in 2025

Figure 35. Global 2.5D MEMS Probe Card Sales Quantity Market Share by Region (2021-2032)

Figure 36. Global 2.5D MEMS Probe Card Consumption Value Market Share by Region (2021-2032)

Figure 37. North America 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 38. Europe 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 39. Asia-Pacific 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 40. South America 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 41. Middle East & Africa 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 42. Global 2.5D MEMS Probe Card Sales Quantity Market Share by Type (2021-2032)

Figure 43. Global 2.5D MEMS Probe Card Consumption Value Market Share by Type (2021-2032)

Figure 44. Global 2.5D MEMS Probe Card Average Price by Type (2021-2032) & (US\$/Unit)

Figure 45. Global 2.5D MEMS Probe Card Sales Quantity Market Share by Application (2021-2032)

Figure 46. Global 2.5D MEMS Probe Card Revenue Market Share by Application (2021-2032)

Figure 47. Global 2.5D MEMS Probe Card Average Price by Application (2021-2032) & (US\$/Unit)

Figure 48. North America 2.5D MEMS Probe Card Sales Quantity Market Share by Type (2021-2032)

Figure 49. North America 2.5D MEMS Probe Card Sales Quantity Market Share by Application (2021-2032)

Figure 50. North America 2.5D MEMS Probe Card Sales Quantity Market Share by Country (2021-2032)

Figure 51. North America 2.5D MEMS Probe Card Consumption Value Market Share by Country (2021-2032)

Figure 52. United States 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 53. Canada 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 54. Mexico 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 55. Europe 2.5D MEMS Probe Card Sales Quantity Market Share by Type (2021-2032)

Figure 56. Europe 2.5D MEMS Probe Card Sales Quantity Market Share by Application (2021-2032)

Figure 57. Europe 2.5D MEMS Probe Card Sales Quantity Market Share by Country (2021-2032)

Figure 58. Europe 2.5D MEMS Probe Card Consumption Value Market Share by Country (2021-2032)

Figure 59. Germany 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 60. France 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 61. United Kingdom 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 62. Russia 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 63. Italy 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 64. Asia-Pacific 2.5D MEMS Probe Card Sales Quantity Market Share by Type (2021-2032)

Figure 65. Asia-Pacific 2.5D MEMS Probe Card Sales Quantity Market Share by Application (2021-2032)

Figure 66. Asia-Pacific 2.5D MEMS Probe Card Sales Quantity Market Share by Region (2021-2032)

Figure 67. Asia-Pacific 2.5D MEMS Probe Card Consumption Value Market Share by

Region (2021-2032)

Figure 68. China 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 69. Japan 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 70. South Korea 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 71. India 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 72. Southeast Asia 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 73. Australia 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 74. South America 2.5D MEMS Probe Card Sales Quantity Market Share by Type (2021-2032)

Figure 75. South America 2.5D MEMS Probe Card Sales Quantity Market Share by Application (2021-2032)

Figure 76. South America 2.5D MEMS Probe Card Sales Quantity Market Share by Country (2021-2032)

Figure 77. South America 2.5D MEMS Probe Card Consumption Value Market Share by Country (2021-2032)

Figure 78. Brazil 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 79. Argentina 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 80. Middle East & Africa 2.5D MEMS Probe Card Sales Quantity Market Share by Type (2021-2032)

Figure 81. Middle East & Africa 2.5D MEMS Probe Card Sales Quantity Market Share by Application (2021-2032)

Figure 82. Middle East & Africa 2.5D MEMS Probe Card Sales Quantity Market Share by Country (2021-2032)

Figure 83. Middle East & Africa 2.5D MEMS Probe Card Consumption Value Market Share by Country (2021-2032)

Figure 84. Turkey 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 85. Egypt 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 86. Saudi Arabia 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 87. South Africa 2.5D MEMS Probe Card Consumption Value (2021-2032) & (USD Million)

Figure 88. 2.5D MEMS Probe Card Market Drivers

Figure 89. 2.5D MEMS Probe Card Market Restraints

Figure 90. 2.5D MEMS Probe Card Market Trends

Figure 91. Porters Five Forces Analysis

Figure 92. Manufacturing Cost Structure Analysis of 2.5D MEMS Probe Card in 2025

Figure 93. Manufacturing Process Analysis of 2.5D MEMS Probe Card

Figure 94. 2.5D MEMS Probe Card Industrial Chain

Figure 95. Sales Channel: Direct to End-User vs Distributors

Figure 96. Direct Channel Pros & Cons

Figure 97. Indirect Channel Pros & Cons

Figure 98. Methodology

Figure 99. Research Process and Data Source

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