

# Varistor and Gas Discharge Tubes (GDT) Market by Product (Varistor & GDT), by Varistor (Metal Oxide, SiC, Zinc Oxide), GDT (Through-hole, SMT, Hybrid), Material (Ceramic & Glass, Quartz), Electrode (2-electrode, 3-electrode) - Global Forecast to 2030

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## Abstracts

The global varistor and GDT market is expected to grow from USD 7.61 billion in 2025 to USD 9.19 billion by 2030 at a CAGR of 3.8%. The rising demand for robust surge protection in consumer electronics and smart devices is driving the market growth. As homes and businesses increasingly adopt interconnected and sensitive electronic equipment such as smart TVs, IoT devices, and home automation systems, ensuring consistent protection from voltage transients becomes critical. These systems are highly susceptible to damage from power surges caused by lightning strikes, switching operations, or unstable power supplies. Varistors and GDTs provide an effective and compact solution to mitigate these risks, making them essential components in device design. The growing proliferation of electronics in everyday life directly translates to higher adoption of these protective components across global markets.

“Varistor products to account for significant share of varistor and GDT market”

Varistors hold the largest share in the varistor and GDT market primarily due to their versatility, fast response time, and widespread applicability across a broad range of electronic devices and systems. Metal oxide varistors (MOVs), the most common type, offer non-linear resistance, enabling them to quickly clamp voltage surges and protect sensitive components from transient overvoltages. Their compact size, cost-effectiveness, and ease of integration into printed circuit boards (PCBs) make them highly suitable for use in consumer electronics, industrial automation equipment, automotive electronic systems, and telecommunications infrastructure. Unlike GDTs,

which are primarily used for high-energy, slower-response surge protection, varistors are capable of handling frequent and lower-level surges, which occur more commonly in everyday electronics. Furthermore, varistors do not require a specific orientation for installation, simplifying the design process and enhancing manufacturing efficiency. These advantages have led to widespread adoption and increased demand, positioning varistors as the preferred choice for overvoltage protection in numerous end-use industries.

“Automotive sector to dominate varistor and GDT market during forecast period”

The automotive sector is expected to dominate the growth of the varistor and GDT market during the forecast period due to the rapid electrification and increasing electronic complexity of modern vehicles. With the widespread adoption of electric vehicles, hybrid vehicles, and advanced driver-assistance systems (ADAS), the number of sensitive electronic components in automobiles has surged. These components, including infotainment systems, battery management systems, inverters, and various control units, require reliable protection against voltage spikes and transient events caused by switching operations, load dumps, and electromagnetic interference. Varistors and GDTs play a crucial role in safeguarding these systems, ensuring operational stability and longevity. Additionally, the growing regulatory focus on vehicle safety and the integration of connected car technologies further amplify the need for robust circuit protection. As automakers increasingly prioritize electrical reliability and durability in harsh automotive environments, the demand for efficient and compact surge protection solutions such as varistors and GDTs continues to rise.

“US to account for largest share of North America varistor and GDT market”

The US is expected to hold the largest share of the North American varistor and GDT market due to its advanced industrial base, widespread adoption of consumer electronics, and strong presence of key sectors such as automotive, telecommunications, and defense. The country is a hub for technological innovation, with a high concentration of electronics manufacturers and R&D activities that demand reliable surge protection solutions. Additionally, the increasing deployment of smart grid infrastructure and electric vehicles across the US accelerates the need for varistors and GDTs to protect critical power and control systems from transient voltages. The robust expansion of 5G networks and IoT-connected devices also contributes to the rising demand for compact, fast-response circuit protection components.

In-depth interviews have been conducted with C-level executives (CEOs), directors, and

other executives from various key organizations operating in the varistor and GDT marketplace.

By Company Type: Tier 1–40%, Tier 2–35%, and Tier 3–25%

By Designation: C-level Executives–35%, Directors–45%, and Others–20%

By Region: North America–45%, Europe–25%, Asia Pacific–20%, and RoW–10%

The study includes an in-depth competitive analysis of these key players in the varistor and GDT market, as well as their company profiles, recent developments, and key market strategies.

## **Research Coverage**

This research report categorizes the varistor and GDT market by product type, varistor by type, varistor by application, GDT by type, GDT by number of electrodes, GDT by voltage, GDT by material type, GDT by application, and region (North America, Europe, Asia Pacific, and RoW). The report scope covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the varistor and GDT market. A thorough analysis of the key industry players has provided insights into their business overview, solutions and services, key strategies such as contracts, partnerships, agreements, new product & service launches, and acquisitions, and recent developments associated with the varistor and GDT market. This report covers a competitive analysis of the upcoming varistor and GDT market ecosystem startups.

## **Reasons to Buy This Report**

The report will help market leaders and new entrants with information on the closest approximations of the revenue numbers for the varistor and GDT market and subsegments. It will also help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

## **The report provides insights on the following pointers:**

*Varistor and Gas Discharge Tubes (GDT) Market by Product (Varistor & GDT), by Varistor (Metal Oxide, SiC, Zinc...*

Analysis of key drivers (Rising demand for surge protection in telecommunication infrastructure, Growth in industrial automation and control systems, Emphasis on energy infrastructure protection and smart grids, Rising adoption of varistors in power supply systems, Proliferation of consumer electronics and smart devices, Electrification and safety demand in the automotive sector), restraints (Environmental and regulatory compliance challenges), opportunities (Growing opportunities for MOV in smart homes and IoT-enabled devices, Surge protection in EV charging stations and smart mobility infrastructure), and challenges (Degradation over time and repeated surges, Availability of alternative surge protection technologies) influencing the growth of the varistor and GDT market.

**Product Development/Innovation:** The report includes detailed insights on upcoming technologies, research & development activities, and product launches in the varistor and GDT market.

**Market Development:** The report provides comprehensive information about lucrative markets and analyzes the varistor and GDT market across varied regions.

**Market Diversification:** This includes exhaustive information about new products, untapped geographies, recent developments, and investments in the varistor and GDT market.

**Competitive Assessment:** The varistor and GDT market report includes information about in-depth assessments of market shares, growth strategies, and service offerings of leading players, such as Littelfuse, Inc. (US), TDK Corporation (Japan), YAGEO Group (Taiwan), KYOCERA AVX Components Corporation (US), Bourns, Inc. (US), Eaton (Ireland), Weidmüller Interface GmbH & Co. KG (Germany), and HUBER+SUHNER (Switzerland).

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION

#### 1.3 STUDY SCOPE

##### 1.3.1 MARKETS COVERED AND REGIONAL SCOPE

##### 1.3.2 YEARS CONSIDERED

##### 1.3.3 INCLUSIONS AND EXCLUSIONS

#### 1.4 CURRENCY CONSIDERED

#### 1.5 UNIT CONSIDERED

#### 1.6 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

##### 2.1.1 SECONDARY AND PRIMARY RESEARCH

##### 2.1.2 SECONDARY DATA

###### 2.1.2.1 List of key secondary sources

###### 2.1.2.2 Key data from secondary sources

##### 2.1.3 PRIMARY DATA

###### 2.1.3.1 Intended participants and key opinion leaders

###### 2.1.3.2 Key data from primary sources

###### 2.1.3.3 Key industry insights

###### 2.1.3.4 Breakdown of primaries

#### 2.2 FACTOR ANALYSIS

#### 2.3 MARKET SIZE ESTIMATION

##### 2.3.1 BOTTOM-UP APPROACH

###### 2.3.1.1 Approach to estimate market size using bottom-up analysis (demand side)

##### 2.3.2 TOP-DOWN APPROACH

###### 2.3.2.1 Approach to estimate market size using top-down analysis (supply side)

#### 2.4 DATA TRIANGULATION

#### 2.5 RESEARCH ASSUMPTIONS

#### 2.6 RESEARCH LIMITATIONS

#### 2.7 RISK ANALYSIS

### 3 EXECUTIVE SUMMARY

## **4 PREMIUM INSIGHTS**

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN VARISTOR AND GDT MARKET

4.2 VARISTOR AND GDT MARKET IN ASIA PACIFIC, BY COUNTRY AND PRODUCT TYPE

4.3 VARISTOR AND GDT MARKET, BY PRODUCT TYPE

4.4 VARISTOR AND GDT MARKET, BY REGION

## **5 MARKET OVERVIEW**

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Rising adoption of varistors in power supply systems

5.2.1.2 Proliferation of consumer electronics and smart devices

5.2.1.3 Electrification and safety demand in automotive sector

5.2.1.4 Rising demand for surge protection in telecommunication infrastructure

5.2.1.5 Growth in industrial automation and control systems

5.2.1.6 Emphasis on energy infrastructure protection and smart grids

5.2.2 RESTRAINTS

5.2.2.1 Environmental and regulatory compliance challenges

5.2.3 OPPORTUNITIES

5.2.3.1 Growing opportunities for MOV in smart homes and IoT-enabled devices

5.2.3.2 Surge protection in EV charging stations and smart mobility infrastructure

5.2.4 CHALLENGES

5.2.4.1 Degradation over time and repeated surges

5.2.4.2 Availability of alternative surge protection technologies

5.3 VALUE CHAIN ANALYSIS

5.4 ECOSYSTEM ANALYSIS

5.5 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.6 PRICING ANALYSIS

5.6.1 AVERAGE SELLING PRICE, BY KEY PLAYER

5.6.2 AVERAGE SELLING PRICE TREND, BY APPLICATION

5.6.3 AVERAGE SELLING PRICE TREND, BY REGION

5.7 TECHNOLOGY ANALYSIS

5.7.1 KEY TECHNOLOGIES

5.7.1.1 Zinc oxide-based ceramic technology

5.7.1.2 Gas plasma technology

- 5.7.1.3 Thin-film deposition techniques
- 5.7.2 COMPLEMENTARY TECHNOLOGIES
  - 5.7.2.1 Transient voltage suppression (TVS) diodes
  - 5.7.2.2 Polymer-based surge suppressors
- 5.7.3 ADJACENT TECHNOLOGIES
  - 5.7.3.1 Silicon avalanche diodes (SADs)
  - 5.7.3.2 Solid-state circuit breakers
- 5.8 IMPACT OF AI ON VARISTOR AND GDT MARKET
  - 5.8.1 INTRODUCTION
  - 5.8.2 AI IN DESIGN AND MATERIAL OPTIMIZATION
  - 5.8.3 AI IN PREDICTIVE MAINTENANCE AND SMART INTEGRATION
  - 5.8.4 AI-DRIVEN QUALITY CONTROL AND MANUFACTURING EFFICIENCY
  - 5.8.5 MARKET DIFFERENTIATION AND CUSTOMIZATION VIA AI
- 5.9 PORTER'S FIVE FORCES ANALYSIS
  - 5.9.1 INTENSITY OF COMPETITIVE RIVALRY
  - 5.9.2 BARGAINING POWER OF SUPPLIERS
  - 5.9.3 BARGAINING POWER OF BUYERS
  - 5.9.4 THREAT OF SUBSTITUTES
  - 5.9.5 THREAT OF NEW ENTRANTS
- 5.10 KEY STAKEHOLDERS AND BUYING CRITERIA
  - 5.10.1 KEY STAKEHOLDERS IN BUYING PROCESS
  - 5.10.2 BUYING CRITERIA
- 5.11 CASE STUDY ANALYSIS
  - 5.11.1 CASE STUDY 1: LITTELFUSE SM10 SERIES VARISTOR IN AUTOMOTIVE ELECTRONICS
  - 5.11.2 CASE STUDY 2: TDK AVRH10C101KT1R1NE8 VARISTOR FOR AUTOMOTIVE ETHERNET
  - 5.11.3 CASE STUDY 3: BOURNS FLAT GDT TECHNOLOGY FOR COMPACT ELECTRONICS
  - 5.11.4 CASE STUDY 4: BOURNS MODEL 2017 SERIES FLAT GDTS IN HIGH-DENSITY PCBs
- 5.12 IMPACT OF 2025 US TARIFFS—VARISTOR AND GDT MARKET
  - 5.12.1 INTRODUCTION
  - 5.12.2 KEY TARIFF RATES
  - 5.12.3 PRICE IMPACT ANALYSIS
  - 5.12.4 IMPACT ON COUNTRIES/REGIONS
    - 5.12.4.1 US
    - 5.12.4.2 Europe
    - 5.12.4.3 Asia Pacific

- 5.12.5 IMPACT ON END-USE INDUSTRIES
- 5.13 TRADE ANALYSIS
  - 5.13.1 IMPORT DATA FOR HS CODE 853340
  - 5.13.2 EXPORT DATA FOR HS CODE 853340
  - 5.13.3 IMPORT DATA FOR HS CODE 853630
  - 5.13.4 EXPORT DATA FOR HS CODE 853630
- 5.14 TARIFFS AND REGULATORY LANDSCAPE
  - 5.14.1 TARIFF ANALYSIS
  - 5.14.2 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS
  - 5.14.3 STANDARDS
    - 5.14.3.1 IEC 61051 Series – Varistors for Use in Electronic Equipment
    - 5.14.3.2 IEC 61643-331
    - 5.14.3.3 UL 1449 – Surge Protective Devices (SPDs)
  - 5.14.4 REGULATIONS
- 5.15 PATENT ANALYSIS
- 5.16 KEY CONFERENCES AND EVENTS, 2025–2026

## **6 HYBRID VOLTAGE PROTECTION**

- 6.1 INTRODUCTION
- 6.2 HYBRID OVERVOLTAGE PROTECTION: COMBINING MOV WITH GDT FOR IMPROVED SURGE HANDLING

## **7 VARISTOR AND GDT MARKET, BY PRODUCT TYPE**

- 7.1 INTRODUCTION
- 7.2 VARISTOR
  - 7.2.1 GROWING DEMAND FOR ROBUST OVERVOLTAGE PROTECTION IN MULTIPLE INDUSTRIES TO FUEL MARKET GROWTH
- 7.3 GAS DISCHARGE TUBES
  - 7.3.1 NEED TO PROTECT LONG-RANGE COMMUNICATION AND DATA INFRASTRUCTURE TO DRIVE MARKET GROWTH

## **8 VARISTOR MARKET, BY TYPE**

- 8.1 INTRODUCTION
- 8.2 METAL OXIDE VARISTOR
  - 8.2.1 HIGH ENERGY ABSORPTION CAPACITY TO BOOST MARKET GROWTH

### 8.3 SILICON CARBIDE VARISTOR

#### 8.3.1 ABILITY TO WITHSTAND EXTREME ENVIRONMENTS TO FUEL ADOPTION

### 8.4 OTHERS

## 9 VARISTOR MARKET, BY APPLICATION

### 9.1 INTRODUCTION

### 9.2 CONSUMER ELECTRONICS

#### 9.2.1 ROBUST GROWTH IN CONSUMER ELECTRONICS SECTOR TO DRIVE MARKET GROWTH

### 9.3 POWER SUPPLY SYSTEMS

#### 9.3.1 INCREASING ADOPTION OF RENEWABLE ENERGY TO FUEL MARKET EXPANSION

### 9.4 AUTOMOTIVE

#### 9.4.1 POTENTIAL GROWTH IN EV AND HEV TO BOOST DEMAND

### 9.5 INDUSTRIAL EQUIPMENT

#### 9.5.1 NEED FOR SURGE PROTECTION IN INDUSTRIAL MACHINERY TO BOOST GROWTH

### 9.6 TELECOMMUNICATIONS

#### 9.6.1 RISING FOCUS ON DEVELOPMENT OF TELECOMMUNICATION INFRASTRUCTURE TO PROPEL MARKET GROWTH

## 10 GAS DISCHARGE TUBES MARKET, BY TYPE

### 10.1 INTRODUCTION

### 10.2 THROUGH-HOLE GAS DISCHARGE TUBES

#### 10.2.1 DRIVEN BY HIGH-ENERGY, RUGGED SURGE PROTECTION IN INDUSTRIAL AND TELECOM APPLICATIONS

### 10.3 SURFACE-MOUNTED GAS DISCHARGE TUBES

#### 10.3.1 PREFERENCE FOR COMPACT ELECTRONICS WITH SPACE-EFFICIENT, BOARD-LEVEL PROTECTION TO DRIVE SEGMENT

### 10.4 HYBRID GAS DISCHARGE TUBES

#### 10.4.1 NEED FOR INTEGRATED, MULTI-LAYER PROTECTION IN SENSITIVE AND HIGH-SPEED CIRCUITS TO BOOST GROWTH

## 11 GAS DISCHARGE TUBES MARKET, BY NUMBER OF ELECTRODES

### 11.1 INTRODUCTION

### 11.2 TWO-ELECTRODE GAS DISCHARGE TUBES

11.2.1 DRIVEN BY DEMAND FOR SIMPLE, SPACE-SAVING PROTECTION IN SINGLE-LINE APPLICATIONS

11.3 THREE-ELECTRODE GAS DISCHARGE TUBES

11.3.1 NEED FOR EFFICIENT MULTI-LINE SURGE PROTECTION IN TELECOM AND DATA NETWORKS TO FUEL GROWTH

## **12 GAS DISCHARGE TUBES MARKET, BY VOLTAGE**

12.1 INTRODUCTION

12.2 HIGH VOLTAGE SURGE (ABOVE 1,000V)

12.2.1 GROWING NEED FOR ROBUST SURGE PROTECTION IN HIGH-ENERGY POWER AND INDUSTRIAL SYSTEMS TO FUEL GROWTH

12.3 LOW TO MEDIUM VOLTAGE SURGE (75V TO 1,000V)

12.3.1 RISING DEMAND FOR COMPACT SURGE PROTECTION IN LOW-VOLTAGE ELECTRONIC SYSTEMS TO BOOST SEGMENT

## **13 GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE**

13.1 INTRODUCTION

13.2 CERAMIC

13.2.1 DEMAND FOR HIGH-RELIABILITY SURGE PROTECTION IN RUGGED ENVIRONMENTS TO DRIVE GROWTH

13.3 OTHER MATERIALS

## **14 GAS DISCHARGE TUBES MARKET, BY APPLICATION**

14.1 INTRODUCTION

14.2 POWER DISTRIBUTION SYSTEMS

14.2.1 INCREASING NEED FOR SURGE PROTECTION IN MODERN POWER INFRASTRUCTURE TO DRIVE GROWTH

14.3 TELECOMMUNICATION NETWORKS

14.3.1 RAPID TELECOM INFRASTRUCTURE EXPANSION AND 5G DEPLOYMENT TO BOOST GROWTH

14.4 CONSUMER ELECTRONICS

14.4.1 GROWING DEPLOYMENT IN SURGE-PROTECTED POWER STRIPS TO PROPEL MARKET GROWTH

14.5 INDUSTRIAL APPLICATIONS

14.5.1 SURGE PROTECTION REQUIREMENTS IN INDUSTRIAL ENVIRONMENTS TO FUEL SEGMENT

## **15 VARISTOR AND GDT MARKET, BY REGION**

### 15.1 INTRODUCTION

### 15.2 NORTH AMERICA

#### 15.2.1 MACROECONOMIC OUTLOOK FOR NORTH AMERICA

#### 15.2.2 US

15.2.2.1 Significant growth in EVs and telecom sector to fuel market expansion

#### 15.2.3 CANADA

15.2.3.1 Favorable infrastructure development for EV growth to foster revenue growth

#### 15.2.4 MEXICO

15.2.4.1 Significant growth in industrialization to complement market growth

### 15.3 EUROPE

#### 15.3.1 MACROECONOMIC OUTLOOK FOR EUROPE

#### 15.3.2 GERMANY

15.3.2.1 Increasing investment in clean energy and smart factory solutions to fuel market growth

#### 15.3.3 UK

15.3.3.1 Robust growth in automotive sector to fuel market growth

#### 15.3.4 FRANCE

15.3.4.1 Increasing government initiatives to drive revenue growth

#### 15.3.5 ITALY

15.3.5.1 Need of surge protection in telecom and industrial sectors to fuel demand

#### 15.3.6 REST OF EUROPE

### 15.4 ASIA PACIFIC

#### 15.4.1 MACROECONOMIC OUTLOOK FOR ASIA PACIFIC

#### 15.4.2 CHINA

15.4.2.1 Strong position in EV production to drive market growth

#### 15.4.3 JAPAN

15.4.3.1 Rising developments in industrial automation to complement market growth

#### 15.4.4 SOUTH KOREA

15.4.4.1 Rising demand for robust surge protection in electronic systems to drive market

#### 15.4.5 INDIA

15.4.5.1 Significant investments in infrastructure development to boost market

#### 15.4.6 REST OF ASIA PACIFIC

### 15.5 ROW

#### 15.5.1 MACROECONOMIC OUTLOOK FOR ROW

#### 15.5.2 MIDDLE EAST

- 15.5.2.1 Growing energy infrastructure development to fuel market expansion
- 15.5.2.2 GCC countries
  - 15.5.2.2.1 Investments in power generation and telecom sectors
- 15.5.2.3 Rest of Middle East
- 15.5.3 AFRICA
  - 15.5.3.1 Growing electricity demand and focus on infrastructural growth to support market growth
- 15.5.4 SOUTH AMERICA
  - 15.5.4.1 Ongoing infrastructural growth to support market

## **16 COMPETITIVE LANDSCAPE**

- 16.1 OVERVIEW
- 16.2 KEY PLAYER STRATEGIES/RIGHT TO WIN, 2021–2025
- 16.3 MARKET SHARE ANALYSIS, 2024
- 16.4 REVENUE ANALYSIS, 2020–2024
- 16.5 COMPANY VALUATION AND FINANCIAL METRICS, 2024
- 16.6 BRAND/PRODUCT COMPARISON
- 16.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024
  - 16.7.1 STARS
  - 16.7.2 EMERGING LEADERS
  - 16.7.3 PERVASIVE PLAYERS
  - 16.7.4 PARTICIPANTS
  - 16.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024
    - 16.7.5.1 Company footprint
    - 16.7.5.2 Region footprint
    - 16.7.5.3 Product type footprint
    - 16.7.5.4 Application footprint
- 16.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024
  - 16.8.1 PROGRESSIVE COMPANIES
  - 16.8.2 RESPONSIVE COMPANIES
  - 16.8.3 DYNAMIC COMPANIES
  - 16.8.4 STARTING BLOCKS
  - 16.8.5 COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024
    - 16.8.5.1 Detailed list of startups/SMEs
    - 16.8.5.2 Competitive benchmarking of key startups/SMEs
- 16.9 COMPETITIVE SCENARIO
  - 16.9.1 PRODUCT LAUNCHES
  - 16.9.2 DEALS

### 16.9.3 EXPANSIONS

## 17 COMPANY PROFILES

### 17.1 KEY PLAYERS

#### 17.1.1 LITTELFUSE, INC.

- 17.1.1.1 Business overview
- 17.1.1.2 Products/Solutions/Services offered
- 17.1.1.3 Recent developments
  - 17.1.1.3.1 Product launches
  - 17.1.1.3.2 Deals
  - 17.1.1.3.3 Expansions
- 17.1.1.4 MnM view
  - 17.1.1.4.1 Right to win
  - 17.1.1.4.2 Strategic choices
  - 17.1.1.4.3 Weaknesses & competitive threats

#### 17.1.2 TDK CORPORATION

- 17.1.2.1 Business overview
- 17.1.2.2 Products/Solutions/Services offered
  - 17.1.2.2.1 Product launches
- 17.1.2.3 MnM view
  - 17.1.2.3.1 Right to win
  - 17.1.2.3.2 Strategic choices
  - 17.1.2.3.3 Weaknesses & competitive threats

#### 17.1.3 YAGEO GROUP

- 17.1.3.1 Business overview
- 17.1.3.2 Products/Solutions/Services offered
- 17.1.3.3 MnM view
  - 17.1.3.3.1 Right to win
  - 17.1.3.3.2 Strategic choices
  - 17.1.3.3.3 Weaknesses & competitive threats

#### 17.1.4 KYOCERA CORPORATION

- 17.1.4.1 Business overview
- 17.1.4.2 Products/Solutions/Services offered
- 17.1.4.3 Recent developments
  - 17.1.4.3.1 Product launches
- 17.1.4.4 MnM view
  - 17.1.4.4.1 Right to win
  - 17.1.4.4.2 Strategic choices

- 17.1.4.4.3 Weaknesses & competitive threats
- 17.1.5 BOURNS, INC.
  - 17.1.5.1 Business overview
  - 17.1.5.2 Products/Solutions/Services offered
  - 17.1.5.3 Recent developments
    - 17.1.5.3.1 Product launches
  - 17.1.5.4 MnM view
    - 17.1.5.4.1 Right to win
    - 17.1.5.4.2 Strategic choices
    - 17.1.5.4.3 Weaknesses & competitive threats
- 17.1.6 EATON
  - 17.1.6.1 Business overview
  - 17.1.6.2 Products/Solutions/Services offered
  - 17.1.6.3 Recent developments
    - 17.1.6.3.1 Deals
  - 17.1.6.4 MnM view
    - 17.1.6.4.1 Right to win
    - 17.1.6.4.2 Strategic choices
    - 17.1.6.4.3 Weaknesses & competitive threats
- 17.1.7 WEIDM?LLER INTERFACE GMBH & CO. KG
  - 17.1.7.1 Business overview
  - 17.1.7.2 Products/Solutions/Services offered
  - 17.1.7.3 Recent developments
    - 17.1.7.3.1 Deals
    - 17.1.7.3.2 Expansions
  - 17.1.7.4 MnM view
    - 17.1.7.4.1 Right to win
    - 17.1.7.4.2 Strategic choices
    - 17.1.7.4.3 Weaknesses & competitive threats
- 17.1.8 HUBER+SUHNER
  - 17.1.8.1 Business overview
  - 17.1.8.2 Products/Solutions/Services offered
  - 17.1.8.3 MnM view
    - 17.1.8.3.1 Right to win
    - 17.1.8.3.2 Strategic choices
    - 17.1.8.3.3 Weaknesses & competitive threats
- 17.1.9 PANASONIC HOLDINGS CORPORATION
  - 17.1.9.1 Business overview
  - 17.1.9.2 Products/Solutions/Services offered

- 17.1.9.3 Recent developments
  - 17.1.9.3.1 Product launches
- 17.1.10 VISHAY INTERTECHNOLOGY, INC.
  - 17.1.10.1 Business overview
  - 17.1.10.2 Products/Solutions/Services offered
- 17.1.11 W?RTH ELEKTRONIK EISOS GMBH & CO. KG
  - 17.1.11.1 Business overview
  - 17.1.11.2 Products/Solutions/Services offered
  - 17.1.11.3 Recent developments
    - 17.1.11.3.1 Expansions
- 17.1.12 PHOENIX CONTACT
  - 17.1.12.1 Business overview
  - 17.1.12.2 Products/Solutions/Services offered
- 17.1.13 DEHN SE
  - 17.1.13.1 Business overview
  - 17.1.13.2 Products/Solutions/Services offered
- 17.1.14 SANKOSHA U.S.A., INC.
  - 17.1.14.1 Business overview
  - 17.1.14.2 Products/Solutions/Services offered
- 17.2 OTHER PLAYERS
  - 17.2.1 NIPPON CHEMI-CON CORPORATION
  - 17.2.2 KOA SPEER ELECTRONICS, INC.
  - 17.2.3 ABRACON
  - 17.2.4 AEM COMPONENTS (USA), INC.
  - 17.2.5 DEAN TECHNOLOGY, INC.
  - 17.2.6 INFINITE ELECTRONICS INTERNATIONAL, INC.
  - 17.2.7 ROSENBERGER
  - 17.2.8 JIEJIE MICROELECTRONICS CO., LTD.
  - 17.2.9 SHENZHEN RUILONGYUAN ELECTRONICS CO., LTD.
  - 17.2.10 XIAMEN SET ELECTRONICS CO., LTD.
  - 17.2.11 SCHIRTEC AG
  - 17.2.12 ZONKAS ELECTRONIC CO., LTD.

## **18 APPENDIX**

- 18.1 INSIGHTS FROM INDUSTRY EXPERTS
- 18.2 DISCUSSION GUIDE
- 18.3 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL
- 18.4 CUSTOMIZATION OPTIONS

18.5 RELATED REPORTS

18.6 AUTHOR DETAILS

## List Of Tables

### LIST OF TABLES

TABLE 1 RESEARCH ASSUMPTIONS

TABLE 2 RESEARCH LIMITATIONS

TABLE 3 RISK ANALYSIS

TABLE 4 VARISTOR MARKET: ROLE OF COMPANIES IN ECOSYSTEM

TABLE 5 GDT MARKET: ROLE OF COMPANIES IN ECOSYSTEM

TABLE 6 AVERAGE SELLING PRICE OF VARISTORS, BY KEY PLAYER (USD)

TABLE 7 AVERAGE SELLING PRICE OF GAS DISCHARGE TUBES, BY KEY PLAYER (USD)

TABLE 8 VARISTOR AND GDT MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 9 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USE INDUSTRIES (%)

TABLE 10 KEY BUYING CRITERIA FOR TOP THREE END-USE INDUSTRIES

TABLE 11 US-ADJUSTED RECIPROCAL TARIFF RATES, 2024 (USD BILLION)

TABLE 12 EXPECTED CHANGE IN PRICES AND IMPACT ON END-USE MARKET DUE TO TARIFFS

TABLE 13 MFN TARIFF FOR HS CODE 853340-COMPLIANT PRODUCTS EXPORTED BY GERMANY, 2024

TABLE 14 MFN TARIFF FOR HS CODE 853340-COMPLIANT EXPORTED BY CHINA, 2024

TABLE 15 MFN TARIFF FOR HS CODE 853630-COMPLIANT EXPORTED BY CHINA, 2024

TABLE 16 MFN TARIFF FOR HS CODE 853630-COMPLIANT EXPORTED BY UK, 2024

TABLE 17 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 18 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 19 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 20 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 21 LIST OF MAJOR PATENTS, 2024

TABLE 22 VARISTOR AND GDT MARKET: KEY CONFERENCES AND EVENTS, 2025–2026

TABLE 23 VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2021–2024 (USD)

MILLION)

TABLE 24 VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2025–2030 (USD MILLION)

TABLE 25 VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2021–2024 (MILLION UNITS)

TABLE 26 VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2025–2030 (MILLION UNITS)

TABLE 27 VARISTOR MARKET, BY REGION, 2021–2024 (USD MILLION)

TABLE 28 VARISTOR MARKET, BY REGION, 2025–2030 (USD MILLION)

TABLE 29 GAS DISCHARGE TUBES MARKET, BY REGION, 2021–2024 (USD MILLION)

TABLE 30 GAS DISCHARGE TUBES MARKET, BY REGION, 2025–2030 (USD MILLION)

TABLE 31 VARISTOR MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 32 VARISTOR MARKET, BY TYPE, 2025–2030 (USD MILLION)

TABLE 33 VARISTOR MARKET, BY APPLICATION, 2021–2024 (USD MILLION)

TABLE 34 VARISTOR MARKET, BY APPLICATION, 2025–2030 (USD MILLION)

TABLE 35 GAS DISCHARGE TUBES MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 36 GAS DISCHARGE TUBES MARKET, BY TYPE, 2025–2030 (USD MILLION)

TABLE 37 GAS DISCHARGE TUBES MARKET, BY NUMBER OF ELECTRODES, 2021–2024 (USD MILLION)

TABLE 38 GAS DISCHARGE TUBES MARKET, BY NUMBER OF ELECTRODES, 2025–2030 (USD MILLION)

TABLE 39 GAS DISCHARGE TUBES MARKET, BY VOLTAGE, 2021–2024 (USD MILLION)

TABLE 40 GAS DISCHARGE TUBES MARKET, BY VOLTAGE, 2025–2030 (USD MILLION)

TABLE 41 GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2021–2024 (USD MILLION)

TABLE 42 GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2025–2030 (USD MILLION)

TABLE 43 GAS DISCHARGE TUBES MARKET, BY APPLICATION, 2021–2024 (USD MILLION)

TABLE 44 GAS DISCHARGE TUBES MARKET, BY APPLICATION, 2025–2030 (USD MILLION)

TABLE 45 POWER DISTRIBUTION SYSTEMS: GAS DISCHARGE TUBES MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 46 POWER DISTRIBUTION SYSTEMS: GAS DISCHARGE TUBES MARKET, BY TYPE, 2025–2030 (USD MILLION)

TABLE 47 POWER DISTRIBUTION SYSTEMS: GAS DISCHARGE TUBES MARKET, BY VOLTAGE, 2021–2024 (USD MILLION)

TABLE 48 POWER DISTRIBUTION SYSTEMS: GAS DISCHARGE TUBES MARKET, BY VOLTAGE, 2025–2030 (USD MILLION)

TABLE 49 POWER DISTRIBUTION SYSTEMS: GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2021–2024 (USD MILLION)

TABLE 50 POWER DISTRIBUTION SYSTEMS: GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2025–2030 (USD MILLION)

TABLE 51 TELECOMMUNICATION NETWORKS: GAS DISCHARGE TUBES MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 52 TELECOMMUNICATION NETWORKS: GAS DISCHARGE TUBES MARKET, BY TYPE, 2025–2030 (USD MILLION)

TABLE 53 TELECOMMUNICATION NETWORKS: GAS DISCHARGE TUBES MARKET, BY VOLTAGE, 2021–2024 (USD MILLION)

TABLE 54 TELECOMMUNICATION NETWORKS: GAS DISCHARGE TUBES MARKET, BY VOLTAGE, 2025–2030 (USD MILLION)

TABLE 55 TELECOMMUNICATION NETWORKS: GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2021–2024 (USD MILLION)

TABLE 56 TELECOMMUNICATION NETWORKS: GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2025–2030 (USD MILLION)

TABLE 57 CONSUMER ELECTRONICS: GAS DISCHARGE TUBES MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 58 CONSUMER ELECTRONICS: GAS DISCHARGE TUBES MARKET, BY TYPE, 2025–2030 (USD MILLION)

TABLE 59 CONSUMER ELECTRONICS: GAS DISCHARGE TUBES MARKET, BY VOLTAGE, 2021–2024 (USD MILLION)

TABLE 60 CONSUMER ELECTRONICS: GAS DISCHARGE TUBES MARKET, BY VOLTAGE, 2025–2030 (USD MILLION)

TABLE 61 CONSUMER ELECTRONICS: GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2021–2024 (USD MILLION)

TABLE 62 CONSUMER ELECTRONICS: GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2025–2030 (USD MILLION)

TABLE 63 INDUSTRIAL APPLICATIONS: GAS DISCHARGE TUBES MARKET, BY TYPE, 2021–2024 (USD MILLION)

TABLE 64 INDUSTRIAL APPLICATIONS: GAS DISCHARGE TUBES MARKET, BY TYPE, 2025–2030 (USD MILLION)

TABLE 65 INDUSTRIAL APPLICATIONS: GAS DISCHARGE TUBES MARKET, BY VOLTAGE, 2021–2024 (USD MILLION)

TABLE 66 INDUSTRIAL APPLICATIONS: GAS DISCHARGE TUBES MARKET, BY

VOLTAGE, 2025–2030 (USD MILLION)

TABLE 67 INDUSTRIAL APPLICATIONS: GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2021–2024 (USD MILLION)

TABLE 68 INDUSTRIAL APPLICATIONS: GAS DISCHARGE TUBES MARKET, BY MATERIAL TYPE, 2025–2030 (USD MILLION)

TABLE 69 VARISTOR AND GDT MARKET, BY REGION, 2021–2024 (USD MILLION)

TABLE 70 VARISTOR AND GDT MARKET, BY REGION, 2025–2030 (USD MILLION)

TABLE 71 NORTH AMERICA: VARISTOR AND GDT MARKET, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 72 NORTH AMERICA: VARISTOR AND GDT MARKET, BY COUNTRY, 2025–2030 (USD MILLION)

TABLE 73 NORTH AMERICA: VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2021–2024 (USD MILLION)

TABLE 74 NORTH AMERICA: VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2025–2030 (USD MILLION)

TABLE 75 EUROPE: VARISTOR AND GDT MARKET, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 76 EUROPE: VARISTOR AND GDT MARKET, BY COUNTRY, 2025–2030 (USD MILLION)

TABLE 77 EUROPE: VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2021–2024 (USD MILLION)

TABLE 78 EUROPE: VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2025–2030 (USD MILLION)

TABLE 79 ASIA PACIFIC: VARISTOR AND GDT MARKET, BY COUNTRY, 2021–2024 (USD MILLION)

TABLE 80 ASIA PACIFIC: VARISTOR AND GDT MARKET, BY COUNTRY, 2025–2030 (USD MILLION)

TABLE 81 ASIA PACIFIC: VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2021–2024 (USD MILLION)

TABLE 82 ASIA PACIFIC: VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2025–2030 (USD MILLION)

TABLE 83 ROW: VARISTOR AND GDT MARKET, BY REGION, 2021–2024 (USD MILLION)

TABLE 84 ROW: VARISTOR AND GDT MARKET, BY REGION, 2025–2030 (USD MILLION)

TABLE 85 ROW: VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2021–2024 (USD MILLION)

TABLE 86 ROW: VARISTOR AND GDT MARKET, BY PRODUCT TYPE, 2025–2030 (USD MILLION)

TABLE 87 MIDDLE EAST: VARISTOR AND GDT MARKET, BY COUNTRY, 2021–2024 (USD THOUSAND)

TABLE 88 MIDDLE EAST: VARISTOR AND GDT MARKET, BY COUNTRY, 2025–2030 (USD THOUSAND)

TABLE 89 VARISTOR AND GDT MARKET: OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS, 2021–2025

TABLE 90 VARISTOR MARKET: DEGREE OF COMPETITION, 2024

TABLE 91 GDT MARKET: DEGREE OF COMPETITION, 2024

TABLE 92 VARISTOR AND GDT MARKET: REGION FOOTPRINT

TABLE 93 VARISTOR AND GDT MARKET: PRODUCT TYPE FOOTPRINT

TABLE 94 VARISTOR AND GDT MARKET: APPLICATION FOOTPRINT

TABLE 95 VARISTOR AND GDT MARKET: KEY STARTUPS/SMES

TABLE 96 VARISTOR AND GDT MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

TABLE 97 VARISTOR AND GDT MARKET: PRODUCT LAUNCHES, JULY 2021 TO APRIL 2025

TABLE 98 VARISTOR AND GDT MARKET: DEALS, JULY 2021 TO APRIL 2025

TABLE 99 VARISTOR AND GDT MARKET: EXPANSIONS, JULY 2021 TO APRIL 2025

TABLE 100 LITTELFUSE, INC.: COMPANY OVERVIEW

TABLE 101 LITTELFUSE, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 102 LITTELFUSE, INC.: PRODUCT LAUNCHES

TABLE 103 LITTELFUSE, INC.: DEALS

TABLE 104 LITTELFUSE, INC.: EXPANSIONS

TABLE 105 TDK CORPORATION: COMPANY OVERVIEW

TABLE 106 TDK CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 107 TDK CORPORATION: PRODUCT LAUNCHES

TABLE 108 YAGEO GROUP: COMPANY OVERVIEW

TABLE 109 YAGEO GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 110 KYOCERA CORPORATION: COMPANY OVERVIEW

TABLE 111 KYOCERA CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 112 KYOCERA CORPORATION: PRODUCT LAUNCHES

TABLE 113 BOURNS, INC.: COMPANY OVERVIEW

TABLE 114 BOURNS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 115 BOURNS, INC.: PRODUCT LAUNCHES

TABLE 116 EATON: COMPANY OVERVIEW

TABLE 117 EATON: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 118 EATON: DEALS

TABLE 119 WEIDM?LLER INTERFACE GMBH & CO. KG: COMPANY OVERVIEW

TABLE 120 WEIDM?LLER INTERFACE GMBH & CO. KG:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 121 WEIDM?LLER INTERFACE GMBH & CO. KG: DEALS

TABLE 122 WEIDM?LLER INTERFACE GMBH & CO. KG: EXPANSIONS

TABLE 123 HUBER+SUHNER: COMPANY OVERVIEW

TABLE 124 HUBER+SUHNER: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 125 PANASONIC HOLDINGS CORPORATION: COMPANY OVERVIEW

TABLE 126 PANASONIC HOLDINGS CORPORATION:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 127 PANASONIC HOLDINGS CORPORATION: PRODUCT LAUNCHES

TABLE 128 VISHAY INTERTECHNOLOGY, INC.: COMPANY OVERVIEW

TABLE 129 VISHAY INTERTECHNOLOGY, INC.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 130 W?RTH ELEKTRONIK EISOS GMBH & CO. KG: COMPANY OVERVIEW

TABLE 131 W?RTH ELEKTRONIK EISOS GMBH & CO. KG:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 132 W?RTH ELEKTRONIK EISOS GMBH & CO. KG: EXPANSIONS

TABLE 133 PHOENIX CONTACT: COMPANY OVERVIEW

TABLE 134 PHOENIX CONTACT: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 135 DEHN SE: COMPANY OVERVIEW

TABLE 136 DEHN SE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 137 SANKOSHA U.S.A., INC.: COMPANY OVERVIEW

TABLE 138 SANKOSHA U.S.A., INC.: PRODUCTS/SOLUTIONS/SERVICES

OFFERED

## List Of Figures

### LIST OF FIGURES

FIGURE 1 VARISTOR AND GDT MARKET SEGMENTATION AND REGIONAL SCOPE

FIGURE 2 VARISTOR AND GDT MARKET: RESEARCH DESIGN

FIGURE 3 RESEARCH APPROACH

FIGURE 4 REVENUE GENERATED BY COMPANIES FROM SALES OF VARISTOR (SUPPLY SIDE)

FIGURE 5 REVENUE GENERATED BY COMPANIES FROM SALES OF GDT (SUPPLY SIDE)

FIGURE 6 RESEARCH FLOW OF MARKET SIZE ESTIMATION

FIGURE 7 VARISTOR AND GDT MARKET: BOTTOM-UP APPROACH

FIGURE 8 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 9 DATA TRIANGULATION

FIGURE 10 VARISTOR SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE IN 2030

FIGURE 11 METAL OXIDE VARISTORS TO DOMINATE IN 2025

FIGURE 12 THROUGH-HOLE GAS DISCHARGE TUBES TO HOLD LARGEST MARKET SIZE IN 2025

FIGURE 13 AUTOMOTIVE APPLICATIONS TO DOMINATE VARISTOR MARKET IN 2030

FIGURE 14 ASIA PACIFIC HELD LARGEST MARKET SHARE IN 2024

FIGURE 15 GROWTH IN AUTOMOTIVE AND CONSUMER ELECTRONICS TO OFFER LUCRATIVE OPPORTUNITIES FOR VARISTOR AND GDT MARKET

FIGURE 16 CHINA AND VARISTOR SEGMENT TO HOLD LARGEST MARKET SHARE IN 2025

FIGURE 17 VARISTOR SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE IN 2030

FIGURE 18 INDIA TO EXHIBIT HIGHEST CAGR IN VARISTOR AND GDT MARKET DURING FORECAST PERIOD

FIGURE 19 VARISTOR AND GDT MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 20 IMPACT ANALYSIS: DRIVERS

FIGURE 21 IMPACT ANALYSIS: RESTRAINTS

FIGURE 22 IMPACT ANALYSIS: OPPORTUNITIES

FIGURE 23 IMPACT ANALYSIS: CHALLENGES

FIGURE 24 VARISTOR AND GDT MARKET: VALUE CHAIN ANALYSIS

FIGURE 25 VARISTOR MARKET: ECOSYSTEM ANALYSIS

FIGURE 26 GDT MARKET: ECOSYSTEM ANALYSIS

FIGURE 27 TRENDS/DISRUPTIONS INFLUENCING CUSTOMER BUSINESS

FIGURE 28 AVERAGE SELLING PRICE OF VARISTORS, BY KEY PLAYER (USD)

FIGURE 29 AVERAGE SELLING PRICE OF GAS DISCHARGE TUBES, BY KEY PLAYER

FIGURE 30 AVERAGE SELLING PRICE TREND OF VARISTORS, BY APPLICATION, 2021–2024

FIGURE 31 AVERAGE SELLING PRICE TREND OF GAS DISCHARGE TUBES, BY APPLICATION, 2021–2024

FIGURE 32 AVERAGE SELLING PRICE TREND OF VARISTORS, BY REGION, 2021–2024

FIGURE 33 AVERAGE SELLING PRICE TREND OF GAS DISCHARGE TUBES, BY REGION, 2021–2024

FIGURE 34 VARISTOR AND GDT MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 35 INFLUENCE OF KEY STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE END-USE INDUSTRIES

FIGURE 36 KEY BUYING CRITERIA FOR TOP THREE END-USE INDUSTRIES

FIGURE 37 IMPORT DATA FOR HS CODE 853340-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2024

FIGURE 38 EXPORT DATA FOR HS CODE 853340-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2024

FIGURE 39 IMPORT DATA FOR HS CODE 853630-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2024

FIGURE 40 EXPORT DATA FOR HS CODE 853630-COMPLIANT PRODUCTS, BY COUNTRY, 2020–2024

FIGURE 41 PATENTS APPLIED AND GRANTED FOR VARISTOR, 2015–2024

FIGURE 42 PATENTS APPLIED AND GRANTED FOR GDT, 2015–2024

FIGURE 43 VARISTOR SEGMENT TO HOLD LARGEST SHARE OF VARISTOR AND GDT MARKET IN 2025

FIGURE 44 METAL OXIDE VARISTORS TO DOMINATE MARKET BY TYPE

FIGURE 45 AUTOMOTIVE TO HOLD LARGEST SHARE OF VARISTOR MARKET

FIGURE 46 THROUGH-HOLE SEGMENT TO HOLD LARGEST SHARE OF GDT MARKET IN 2025

FIGURE 47 THREE-ELECTRODE GDT SEGMENT TO GROW FASTER DURING FORECAST PERIOD

FIGURE 48 HIGH VOLTAGE SURGE SEGMENT TO DOMINATE GAS DISCHARGE TUBES MARKET

FIGURE 49 CERAMIC TO DOMINATE GAS DISCHARGE TUBES MARKET

FIGURE 50 POWER DISTRIBUTION SYSTEMS TO DOMINATE GAS DISCHARGE TUBES MARKET

FIGURE 51 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 52 NORTH AMERICA: VARISTOR AND GDT MARKET SNAPSHOT

FIGURE 53 EUROPE: VARISTOR AND GDT MARKET SNAPSHOT

FIGURE 54 ASIA PACIFIC: VARISTOR AND GDT MARKET SNAPSHOT

FIGURE 55 MARKET SHARE ANALYSIS OF COMPANIES OFFERING VARISTORS, 2024

FIGURE 56 MARKET SHARE ANALYSIS OF COMPANIES OFFERING GDT, 2024

FIGURE 57 VARISTOR AND GDT MARKET: REVENUE ANALYSIS OF FIVE KEY PLAYERS, 2020–2024

FIGURE 58 COMPANY VALUATION, 2024 (USD MILLION)

FIGURE 59 FINANCIAL METRICS (EV/EBITDA), 2024

FIGURE 60 VARISTOR MARKET: BRAND/PRODUCT COMPARISON

FIGURE 61 GDT MARKET: BRAND/PRODUCT COMPARISON

FIGURE 62 VARISTOR AND GDT MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2024

FIGURE 63 VARISTOR AND GDT MARKET: COMPANY FOOTPRINT

FIGURE 64 VARISTOR AND GDT MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2024

FIGURE 65 LITTELFUSE, INC.: COMPANY SNAPSHOT

FIGURE 66 TDK CORPORATION: COMPANY SNAPSHOT

FIGURE 67 YAGEO GROUP: COMPANY SNAPSHOT

FIGURE 68 KYOCERA CORPORATION: COMPANY SNAPSHOT

FIGURE 69 EATON: COMPANY SNAPSHOT

FIGURE 70 HUBER+SUHNER: COMPANY SNAPSHOT

FIGURE 71 PANASONIC HOLDINGS CORPORATION: COMPANY SNAPSHOT

FIGURE 72 VISHAY INTERTECHNOLOGY, INC.: COMPANY SNAPSHOT

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