

Global Gas Discharge Tubes (GDT) Surge Arrestors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Gas Discharge Tubes (GDT) Surge Arrestors market size is expected to reach \$ 700 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

The gas discharge tube (GDT) surge arrester is a circuit protection component that utilizes the gas discharge principle to dissipate transient overvoltages. When communication lines, power lines, industrial control ports, security interfaces, or new energy equipment are affected by lightning surges, electrostatic discharges, or switching overvoltages, it can rapidly break down and conduct, discharging surge currents to ground, thereby protecting downstream chips, modules, and system equipment. Globally estimated, the 2025 sales volume is approximately 1.279 billion units, with an average unit price of about \$0.33 per unit in 2025. The industry's capacity utilization rate is around 78.6%. Upstream enterprises primarily include sectors such as ceramic tube shells, metal electrodes, inert gases, coating materials, glass sealing materials, electronic ceramics, precision stamping, automated packaging equipment, and testing equipment. Downstream enterprises mainly encompass communication equipment, power modules, industrial control, photovoltaic inverters, security devices, smart meters, rail transit, automotive electronics, data centers, and consumer electronics. The industry's average gross margin is approximately 31.8%. In the product cost structure, ceramic tube shells and electrode materials account for about 29%, gas encapsulation and glass sealing materials for around 12%, automated assembly and sintering encapsulation for approximately 18%, testing sorting and reliability verification for about 14%, manual manufacturing and equipment depreciation for around 9%, packaging logistics for about 6%, and R&D certification and channel expenses for approximately 12%. Demand lists include lightning protection requirements for communication base stations, surge protection needs for broadband access equipment,

protection requirements for industrial control ports, protection needs for photovoltaic inverters and energy storage equipment, lightning protection for smart meters, protection requirements for security cameras and access control devices, front-end protection needs for power modules, and protection requirements for automotive low-voltage interfaces. Downstream customer lists include communication equipment manufacturers, power module manufacturers, industrial automation enterprises, photovoltaic inverter companies, energy storage system integrators, smart meter manufacturers, security device manufacturers, rail transit equipment suppliers, automotive electronics suppliers, data center equipment providers, and electronic component distributors. Opportunities arise from policy-driven factors such as new infrastructure construction, 5G and gigabit broadband coverage, power grid intelligence, renewable energy grid integration safety, and enhanced industrial equipment reliability standards. Technological innovation drivers include miniaturized packaging, higher peak pulse currents, lower capacitance, more stable breakdown voltages, surface-mount design, and composite protection solutions. Changes in consumer demands reflect a greater emphasis on long-term equipment reliability, low maintenance costs, lightning resistance, batch consistency, and system-level safety certifications, driving the evolution of gas discharge tube (GDT) surge arresters from general-purpose protection components to high-reliability, scenario-specific, and modular protection solutions.

Gas Discharge Tube (GDT) surge protectors represent a category of electronic protection components with resilient demand; their value lies not in the complexity of the individual device, but in their fundamental role of ensuring the stable operation of terminal equipment and system safety. As communication networks expand to include higher-density sites and more edge nodes, power systems evolve toward distributed new energy and smart grids, and industrial equipment upgrades to connected and unmanned operations, the importance of front-end surge protection continues to rise. Future industry competition will shift from merely vying on delivery times and inventory of general-purpose models to providing differentiated solutions tailored to specific application scenarios?such as communication ports, AC/DC power inputs, photovoltaic DC sides, metering interfaces, low-voltage security ports, and automotive low-voltage interfaces. Since these scenarios impose varying requirements regarding breakdown voltage, insulation resistance, residual voltage, response stability, and service life, manufacturers will be driven to enhance their platform-based model development and customer customization capabilities. Leading enterprises are better positioned to secure partnerships with clients in the telecommunications, power, and industrial sectors by leveraging strengths in material control, hermetic packaging, testing capabilities, certification resources, and global distribution channels; meanwhile, small and medium-sized enterprises can find opportunities in cost-sensitive markets, regional distribution,

and niche customization. Industry risks primarily stem from downstream electronic equipment inventory cycles, the commoditization of low-end products, price competition, and substitution pressure from TVS diodes, varistors, and composite protection devices. However, GDTs remain irreplaceable in applications requiring high surge energy dissipation, long service life, and low-capacitance interface protection. Overall, the market is poised for trends characterized by expanding application scenarios, product structure upgrades, and a gradual increase in brand concentration.

This report studies the global Gas Discharge Tubes (GDT) Surge Arrestors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Gas Discharge Tubes (GDT) Surge Arrestors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Gas Discharge Tubes (GDT) Surge Arrestors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Gas Discharge Tubes (GDT) Surge Arrestors total production and demand, 2021-2032, (M Units)

Global Gas Discharge Tubes (GDT) Surge Arrestors total production value, 2021-2032, (USD Million)

Global Gas Discharge Tubes (GDT) Surge Arrestors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Units), (based on production site)

Global Gas Discharge Tubes (GDT) Surge Arrestors consumption by region & country, CAGR, 2021-2032 & (M Units)

U.S. VS China: Gas Discharge Tubes (GDT) Surge Arrestors domestic production, consumption, key domestic manufacturers and share

Global Gas Discharge Tubes (GDT) Surge Arrestors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Units)

Global Gas Discharge Tubes (GDT) Surge Arrestors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

Global Gas Discharge Tubes (GDT) Surge Arrestors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

This report profiles key players in the global Gas Discharge Tubes (GDT) Surge Arrestors market based on the following parameters - company overview, production,

value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TDK Corporation (JP), Mitsubishi Materials Corporation (JP), Bourns, Inc. (US), Littelfuse, Inc. (US), Sankosha Corporation (JP), Shenzhen Bencent Electronics Co., Ltd. (CN), Endress+Hauser Group (CH), Yageo Corporation (TW), Eaton Corporation plc (IE), HUBER+SUHNER AG (CH), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Gas Discharge Tubes (GDT) Surge Arrestors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Gas Discharge Tubes (GDT) Surge Arrestors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Gas Discharge Tubes (GDT) Surge Arrestors Market, Segmentation by Type:

Two Electrode Type

Three Electrode Type

Others

Global Gas Discharge Tubes (GDT) Surge Arrestors Market, Segmentation by Mounting Type:

Surface Mount

Through Hole

Other

Global Gas Discharge Tubes (GDT) Surge Arrestors Market, Segmentation by Peak Pulse Current:

?500A

500A-1KA

1-2.5KA

2.5-5KA

?5KA

Global Gas Discharge Tubes (GDT) Surge Arrestors Market, Segmentation by Application:

Telecommunications

Power Supplies

Industrial Control

Photovoltaics

Others

Companies Profiled:

TDK Corporation (JP)

Mitsubishi Materials Corporation (JP)

Bourns, Inc. (US)

Littelfuse, Inc. (US)

Sankosha Corporation (JP)

Shenzhen Bencent Electronics Co., Ltd. (CN)

Endress+Hauser Group (CH)

Yageo Corporation (TW)

Eaton Corporation plc (IE)

HUBER+SUHNER AG (CH)

Phoenix Contact GmbH & Co. KG (DE)

Taiyo Yuden Co., Ltd. (JP)

ACPA Technology Co., Ltd. (TW)

Xiamen SET Electronics Co., Ltd. (CN)

Analog Technologies (US)

Key Questions Answered:

1. How big is the global Gas Discharge Tubes (GDT) Surge Arrestors market?
2. What is the demand of the global Gas Discharge Tubes (GDT) Surge Arrestors market?
3. What is the year over year growth of the global Gas Discharge Tubes (GDT) Surge Arrestors market?
4. What is the production and production value of the global Gas Discharge Tubes (GDT) Surge Arrestors market?
5. Who are the key producers in the global Gas Discharge Tubes (GDT) Surge Arrestors market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Gas Discharge Tubes (GDT) Surge Arrestors Introduction
- 1.2 World Gas Discharge Tubes (GDT) Surge Arrestors Supply & Forecast
 - 1.2.1 World Gas Discharge Tubes (GDT) Surge Arrestors Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032)
 - 1.2.3 World Gas Discharge Tubes (GDT) Surge Arrestors Pricing Trends (2021-2032)
- 1.3 World Gas Discharge Tubes (GDT) Surge Arrestors Production by Region (Based on Production Site)
 - 1.3.1 World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Region (2021-2032)
 - 1.3.2 World Gas Discharge Tubes (GDT) Surge Arrestors Production by Region (2021-2032)
 - 1.3.3 World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Region (2021-2032)
 - 1.3.4 North America Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032)
 - 1.3.5 Europe Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032)
 - 1.3.6 China Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032)
 - 1.3.7 Japan Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032)
 - 1.3.8 South Korea Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032)
 - 1.3.9 Southeast Asia Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Gas Discharge Tubes (GDT) Surge Arrestors Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Gas Discharge Tubes (GDT) Surge Arrestors Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Gas Discharge Tubes (GDT) Surge Arrestors Demand (2021-2032)
- 2.2 World Gas Discharge Tubes (GDT) Surge Arrestors Consumption by Region
 - 2.2.1 World Gas Discharge Tubes (GDT) Surge Arrestors Consumption by Region (2021-2026)
 - 2.2.2 World Gas Discharge Tubes (GDT) Surge Arrestors Consumption Forecast by

Region (2027-2032)

2.3 United States Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032)

2.4 China Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032)

2.5 Europe Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032)

2.6 Japan Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032)

2.7 South Korea Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032)

2.8 ASEAN Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032)

2.9 India Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Manufacturer (2021-2026)

3.2 World Gas Discharge Tubes (GDT) Surge Arrestors Production by Manufacturer (2021-2026)

3.3 World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Manufacturer (2021-2026)

3.4 Gas Discharge Tubes (GDT) Surge Arrestors Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Gas Discharge Tubes (GDT) Surge Arrestors Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Gas Discharge Tubes (GDT) Surge Arrestors in 2025

3.5.3 Global Concentration Ratios (CR8) for Gas Discharge Tubes (GDT) Surge Arrestors in 2025

3.6 Gas Discharge Tubes (GDT) Surge Arrestors Market: Overall Company Footprint Analysis

3.6.1 Gas Discharge Tubes (GDT) Surge Arrestors Market: Region Footprint

3.6.2 Gas Discharge Tubes (GDT) Surge Arrestors Market: Company Product Type Footprint

3.6.3 Gas Discharge Tubes (GDT) Surge Arrestors Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Production Value Comparison

4.1.1 United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Production Comparison

4.2.1 United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Consumption Comparison

4.3.1 United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Gas Discharge Tubes (GDT) Surge Arrestors Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Gas Discharge Tubes (GDT) Surge Arrestors Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Value (2021-2026)

4.4.3 United States Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2026)

4.5 China Based Gas Discharge Tubes (GDT) Surge Arrestors Manufacturers and Market Share

4.5.1 China Based Gas Discharge Tubes (GDT) Surge Arrestors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Value (2021-2026)

4.5.3 China Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2026)

4.6 Rest of World Based Gas Discharge Tubes (GDT) Surge Arrestors Manufacturers

and Market Share, 2021-2026

- 4.6.1 Rest of World Based Gas Discharge Tubes (GDT) Surge Arrestors Manufacturers, Headquarters and Production Site (State, Country)
- 4.6.2 Rest of World Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Value (2021-2026)
- 4.6.3 Rest of World Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Gas Discharge Tubes (GDT) Surge Arrestors Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Two Electrode Type
 - 5.2.2 Three Electrode Type
 - 5.2.3 Others
- 5.3 Market Segment by Type
 - 5.3.1 World Gas Discharge Tubes (GDT) Surge Arrestors Production by Type (2021-2032)
 - 5.3.2 World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Type (2021-2032)
 - 5.3.3 World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MOUNTING TYPE

- 6.1 World Gas Discharge Tubes (GDT) Surge Arrestors Market Size Overview by Mounting Type: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Mounting Type
 - 6.2.1 Surface Mount
 - 6.2.2 Through Hole
 - 6.2.3 Other
- 6.3 Market Segment by Mounting Type
 - 6.3.1 World Gas Discharge Tubes (GDT) Surge Arrestors Production by Mounting Type (2021-2032)
 - 6.3.2 World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Mounting Type (2021-2032)
 - 6.3.3 World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Mounting Type (2021-2032)

7 MARKET ANALYSIS BY PEAK PULSE CURRENT

7.1 World Gas Discharge Tubes (GDT) Surge Arrestors Market Size Overview by Peak Pulse Current: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Peak Pulse Current

7.2.1 ?500A

7.2.2 500A-1KA

7.2.3 1-2.5KA

7.2.4 2.5-5KA

7.2.5 ?5KA

7.3 Market Segment by Peak Pulse Current

7.3.1 World Gas Discharge Tubes (GDT) Surge Arrestors Production by Peak Pulse Current (2021-2032)

7.3.2 World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Peak Pulse Current (2021-2032)

7.3.3 World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Peak Pulse Current (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Gas Discharge Tubes (GDT) Surge Arrestors Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Telecommunications

8.2.2 Power Supplies

8.2.3 Industrial Control

8.2.4 Photovoltaics

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Gas Discharge Tubes (GDT) Surge Arrestors Production by Application (2021-2032)

8.3.2 World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Application (2021-2032)

8.3.3 World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 TDK Corporation (JP)

9.1.1 TDK Corporation (JP) Details

9.1.2 TDK Corporation (JP) Major Business

9.1.3 TDK Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

9.1.4 TDK Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 TDK Corporation (JP) Recent Developments/Updates

9.1.6 TDK Corporation (JP) Competitive Strengths & Weaknesses

9.2 Mitsubishi Materials Corporation (JP)

9.2.1 Mitsubishi Materials Corporation (JP) Details

9.2.2 Mitsubishi Materials Corporation (JP) Major Business

9.2.3 Mitsubishi Materials Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

9.2.4 Mitsubishi Materials Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Mitsubishi Materials Corporation (JP) Recent Developments/Updates

9.2.6 Mitsubishi Materials Corporation (JP) Competitive Strengths & Weaknesses

9.3 Bourns, Inc. (US)

9.3.1 Bourns, Inc. (US) Details

9.3.2 Bourns, Inc. (US) Major Business

9.3.3 Bourns, Inc. (US) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

9.3.4 Bourns, Inc. (US) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Bourns, Inc. (US) Recent Developments/Updates

9.3.6 Bourns, Inc. (US) Competitive Strengths & Weaknesses

9.4 Littelfuse, Inc. (US)

9.4.1 Littelfuse, Inc. (US) Details

9.4.2 Littelfuse, Inc. (US) Major Business

9.4.3 Littelfuse, Inc. (US) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

9.4.4 Littelfuse, Inc. (US) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Littelfuse, Inc. (US) Recent Developments/Updates

9.4.6 Littelfuse, Inc. (US) Competitive Strengths & Weaknesses

9.5 Sankosha Corporation (JP)

9.5.1 Sankosha Corporation (JP) Details

9.5.2 Sankosha Corporation (JP) Major Business

9.5.3 Sankosha Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

9.5.4 Sankosha Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Sankosha Corporation (JP) Recent Developments/Updates

9.5.6 Sankosha Corporation (JP) Competitive Strengths & Weaknesses

9.6 Shenzhen Bencent Electronics Co., Ltd. (CN)

9.6.1 Shenzhen Bencent Electronics Co., Ltd. (CN) Details

9.6.2 Shenzhen Bencent Electronics Co., Ltd. (CN) Major Business

9.6.3 Shenzhen Bencent Electronics Co., Ltd. (CN) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

9.6.4 Shenzhen Bencent Electronics Co., Ltd. (CN) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Shenzhen Bencent Electronics Co., Ltd. (CN) Recent Developments/Updates

9.6.6 Shenzhen Bencent Electronics Co., Ltd. (CN) Competitive Strengths & Weaknesses

9.7 Endress+Hauser Group (CH)

9.7.1 Endress+Hauser Group (CH) Details

9.7.2 Endress+Hauser Group (CH) Major Business

9.7.3 Endress+Hauser Group (CH) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

9.7.4 Endress+Hauser Group (CH) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Endress+Hauser Group (CH) Recent Developments/Updates

9.7.6 Endress+Hauser Group (CH) Competitive Strengths & Weaknesses

9.8 Yageo Corporation (TW)

9.8.1 Yageo Corporation (TW) Details

9.8.2 Yageo Corporation (TW) Major Business

9.8.3 Yageo Corporation (TW) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

9.8.4 Yageo Corporation (TW) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Yageo Corporation (TW) Recent Developments/Updates

9.8.6 Yageo Corporation (TW) Competitive Strengths & Weaknesses

9.9 Eaton Corporation plc (IE)

9.9.1 Eaton Corporation plc (IE) Details

9.9.2 Eaton Corporation plc (IE) Major Business

9.9.3 Eaton Corporation plc (IE) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

9.9.4 Eaton Corporation plc (IE) Gas Discharge Tubes (GDT) Surge Arrestors
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Eaton Corporation plc (IE) Recent Developments/Updates

9.9.6 Eaton Corporation plc (IE) Competitive Strengths & Weaknesses

9.10 HUBER+SUHNER AG (CH)

9.10.1 HUBER+SUHNER AG (CH) Details

9.10.2 HUBER+SUHNER AG (CH) Major Business

9.10.3 HUBER+SUHNER AG (CH) Gas Discharge Tubes (GDT) Surge Arrestors
Product and Services

9.10.4 HUBER+SUHNER AG (CH) Gas Discharge Tubes (GDT) Surge Arrestors
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 HUBER+SUHNER AG (CH) Recent Developments/Updates

9.10.6 HUBER+SUHNER AG (CH) Competitive Strengths & Weaknesses

9.11 Phoenix Contact GmbH & Co. KG (DE)

9.11.1 Phoenix Contact GmbH & Co. KG (DE) Details

9.11.2 Phoenix Contact GmbH & Co. KG (DE) Major Business

9.11.3 Phoenix Contact GmbH & Co. KG (DE) Gas Discharge Tubes (GDT) Surge
Arrestors Product and Services

9.11.4 Phoenix Contact GmbH & Co. KG (DE) Gas Discharge Tubes (GDT) Surge
Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Phoenix Contact GmbH & Co. KG (DE) Recent Developments/Updates

9.11.6 Phoenix Contact GmbH & Co. KG (DE) Competitive Strengths & Weaknesses

9.12 Taiyo Yuden Co., Ltd. (JP)

9.12.1 Taiyo Yuden Co., Ltd. (JP) Details

9.12.2 Taiyo Yuden Co., Ltd. (JP) Major Business

9.12.3 Taiyo Yuden Co., Ltd. (JP) Gas Discharge Tubes (GDT) Surge Arrestors
Product and Services

9.12.4 Taiyo Yuden Co., Ltd. (JP) Gas Discharge Tubes (GDT) Surge Arrestors
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Taiyo Yuden Co., Ltd. (JP) Recent Developments/Updates

9.12.6 Taiyo Yuden Co., Ltd. (JP) Competitive Strengths & Weaknesses

9.13 ACPA Technology Co., Ltd. (TW)

9.13.1 ACPA Technology Co., Ltd. (TW) Details

9.13.2 ACPA Technology Co., Ltd. (TW) Major Business

9.13.3 ACPA Technology Co., Ltd. (TW) Gas Discharge Tubes (GDT) Surge Arrestors
Product and Services

9.13.4 ACPA Technology Co., Ltd. (TW) Gas Discharge Tubes (GDT) Surge Arrestors
Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 ACPA Technology Co., Ltd. (TW) Recent Developments/Updates

- 9.13.6 ACPA Technology Co., Ltd. (TW) Competitive Strengths & Weaknesses
- 9.14 Xiamen SET Electronics Co., Ltd. (CN)
 - 9.14.1 Xiamen SET Electronics Co., Ltd. (CN) Details
 - 9.14.2 Xiamen SET Electronics Co., Ltd. (CN) Major Business
 - 9.14.3 Xiamen SET Electronics Co., Ltd. (CN) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services
 - 9.14.4 Xiamen SET Electronics Co., Ltd. (CN) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Xiamen SET Electronics Co., Ltd. (CN) Recent Developments/Updates
 - 9.14.6 Xiamen SET Electronics Co., Ltd. (CN) Competitive Strengths & Weaknesses
- 9.15 Analog Technologies (US)
 - 9.15.1 Analog Technologies (US) Details
 - 9.15.2 Analog Technologies (US) Major Business
 - 9.15.3 Analog Technologies (US) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services
 - 9.15.4 Analog Technologies (US) Gas Discharge Tubes (GDT) Surge Arrestors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Analog Technologies (US) Recent Developments/Updates
 - 9.15.6 Analog Technologies (US) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Gas Discharge Tubes (GDT) Surge Arrestors Industry Chain
- 10.2 Gas Discharge Tubes (GDT) Surge Arrestors Upstream Analysis
 - 10.2.1 Gas Discharge Tubes (GDT) Surge Arrestors Core Raw Materials
 - 10.2.2 Main Manufacturers of Gas Discharge Tubes (GDT) Surge Arrestors Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Gas Discharge Tubes (GDT) Surge Arrestors Production Mode
- 10.6 Gas Discharge Tubes (GDT) Surge Arrestors Procurement Model
- 10.7 Gas Discharge Tubes (GDT) Surge Arrestors Industry Sales Model and Sales Channels
 - 10.7.1 Gas Discharge Tubes (GDT) Surge Arrestors Sales Model
 - 10.7.2 Gas Discharge Tubes (GDT) Surge Arrestors Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Region (2021-2026) & (USD Million)

Table 3. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Region (2027-2032) & (USD Million)

Table 4. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Region (2021-2026)

Table 5. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Region (2027-2032)

Table 6. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Region (2021-2026) & (M Units)

Table 7. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Region (2027-2032) & (M Units)

Table 8. World Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share by Region (2021-2026)

Table 9. World Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share by Region (2027-2032)

Table 10. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Gas Discharge Tubes (GDT) Surge Arrestors Major Market Trends

Table 13. World Gas Discharge Tubes (GDT) Surge Arrestors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (M Units)

Table 14. World Gas Discharge Tubes (GDT) Surge Arrestors Consumption by Region (2021-2026) & (M Units)

Table 15. World Gas Discharge Tubes (GDT) Surge Arrestors Consumption Forecast by Region (2027-2032) & (M Units)

Table 16. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Gas Discharge Tubes (GDT) Surge Arrestors Producers in 2025

Table 18. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Manufacturer (2021-2026) & (M Units)

Table 19. Production Market Share of Key Gas Discharge Tubes (GDT) Surge Arrestors Producers in 2025

Table 20. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Gas Discharge Tubes (GDT) Surge Arrestors Company Evaluation Quadrant

Table 22. World Gas Discharge Tubes (GDT) Surge Arrestors Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Gas Discharge Tubes (GDT) Surge Arrestors Production Site of Key Manufacturer

Table 24. Gas Discharge Tubes (GDT) Surge Arrestors Market: Company Product Type Footprint

Table 25. Gas Discharge Tubes (GDT) Surge Arrestors Market: Company Product Application Footprint

Table 26. Gas Discharge Tubes (GDT) Surge Arrestors Competitive Factors

Table 27. Gas Discharge Tubes (GDT) Surge Arrestors New Entrant and Capacity Expansion Plans

Table 28. Gas Discharge Tubes (GDT) Surge Arrestors Mergers & Acquisitions Activity

Table 29. United States VS China Gas Discharge Tubes (GDT) Surge Arrestors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Gas Discharge Tubes (GDT) Surge Arrestors Production Comparison, (2021 & 2025 & 2032) & (M Units)

Table 31. United States VS China Gas Discharge Tubes (GDT) Surge Arrestors Consumption Comparison, (2021 & 2025 & 2032) & (M Units)

Table 32. United States Based Gas Discharge Tubes (GDT) Surge Arrestors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2026) & (M Units)

Table 36. United States Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share (2021-2026)

Table 37. China Based Gas Discharge Tubes (GDT) Surge Arrestors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production, (2021-2026) & (M Units)

Table 41. China Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share (2021-2026)

Table 42. Rest of World Based Gas Discharge Tubes (GDT) Surge Arrestors Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production, (2021-2026) & (M Units)

Table 46. Rest of World Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share (2021-2026)

Table 47. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Type (2021-2026) & (M Units)

Table 49. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Type (2027-2032) & (M Units)

Table 50. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Type (2021-2026) & (USD Million)

Table 51. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Type (2027-2032) & (USD Million)

Table 52. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Mounting Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Mounting Type (2021-2026) & (M Units)

Table 56. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Mounting Type (2027-2032) & (M Units)

Table 57. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Mounting Type (2021-2026) & (USD Million)

Table 58. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Mounting Type (2027-2032) & (USD Million)

Table 59. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Mounting Type (2021-2026) & (US\$/Unit)

Table 60. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Mounting Type (2027-2032) & (US\$/Unit)

Table 61. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Peak Pulse Current, (USD Million), 2021 & 2025 & 2032

Table 62. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Peak Pulse Current (2021-2026) & (M Units)

Table 63. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Peak Pulse Current (2027-2032) & (M Units)

Table 64. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Peak Pulse Current (2021-2026) & (USD Million)

Table 65. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Peak Pulse Current (2027-2032) & (USD Million)

Table 66. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Peak Pulse Current (2021-2026) & (US\$/Unit)

Table 67. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Peak Pulse Current (2027-2032) & (US\$/Unit)

Table 68. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Application (2021-2026) & (M Units)

Table 70. World Gas Discharge Tubes (GDT) Surge Arrestors Production by Application (2027-2032) & (M Units)

Table 71. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Application (2021-2026) & (USD Million)

Table 72. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Application (2027-2032) & (USD Million)

Table 73. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. TDK Corporation (JP) Basic Information, Manufacturing Base and Competitors

Table 76. TDK Corporation (JP) Major Business

Table 77. TDK Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 78. TDK Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 79. TDK Corporation (JP) Recent Developments/Updates

Table 80. TDK Corporation (JP) Competitive Strengths & Weaknesses

Table 81. Mitsubishi Materials Corporation (JP) Basic Information, Manufacturing Base and Competitors

Table 82. Mitsubishi Materials Corporation (JP) Major Business

Table 83. Mitsubishi Materials Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 84. Mitsubishi Materials Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Mitsubishi Materials Corporation (JP) Recent Developments/Updates

Table 86. Mitsubishi Materials Corporation (JP) Competitive Strengths & Weaknesses

Table 87. Bourns, Inc. (US) Basic Information, Manufacturing Base and Competitors

Table 88. Bourns, Inc. (US) Major Business

Table 89. Bourns, Inc. (US) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 90. Bourns, Inc. (US) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Bourns, Inc. (US) Recent Developments/Updates

Table 92. Bourns, Inc. (US) Competitive Strengths & Weaknesses

Table 93. Littelfuse, Inc. (US) Basic Information, Manufacturing Base and Competitors

Table 94. Littelfuse, Inc. (US) Major Business

Table 95. Littelfuse, Inc. (US) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 96. Littelfuse, Inc. (US) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Littelfuse, Inc. (US) Recent Developments/Updates

Table 98. Littelfuse, Inc. (US) Competitive Strengths & Weaknesses

Table 99. Sankosha Corporation (JP) Basic Information, Manufacturing Base and Competitors

Table 100. Sankosha Corporation (JP) Major Business

Table 101. Sankosha Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 102. Sankosha Corporation (JP) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Sankosha Corporation (JP) Recent Developments/Updates
Table 104. Sankosha Corporation (JP) Competitive Strengths & Weaknesses
Table 105. Shenzhen Bencent Electronics Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors
Table 106. Shenzhen Bencent Electronics Co., Ltd. (CN) Major Business
Table 107. Shenzhen Bencent Electronics Co., Ltd. (CN) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services
Table 108. Shenzhen Bencent Electronics Co., Ltd. (CN) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Shenzhen Bencent Electronics Co., Ltd. (CN) Recent Developments/Updates
Table 110. Shenzhen Bencent Electronics Co., Ltd. (CN) Competitive Strengths & Weaknesses
Table 111. Endress+Hauser Group (CH) Basic Information, Manufacturing Base and Competitors
Table 112. Endress+Hauser Group (CH) Major Business
Table 113. Endress+Hauser Group (CH) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services
Table 114. Endress+Hauser Group (CH) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Endress+Hauser Group (CH) Recent Developments/Updates
Table 116. Endress+Hauser Group (CH) Competitive Strengths & Weaknesses
Table 117. Yageo Corporation (TW) Basic Information, Manufacturing Base and Competitors
Table 118. Yageo Corporation (TW) Major Business
Table 119. Yageo Corporation (TW) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services
Table 120. Yageo Corporation (TW) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Yageo Corporation (TW) Recent Developments/Updates
Table 122. Yageo Corporation (TW) Competitive Strengths & Weaknesses
Table 123. Eaton Corporation plc (IE) Basic Information, Manufacturing Base and Competitors
Table 124. Eaton Corporation plc (IE) Major Business
Table 125. Eaton Corporation plc (IE) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 126. Eaton Corporation plc (IE) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Eaton Corporation plc (IE) Recent Developments/Updates

Table 128. Eaton Corporation plc (IE) Competitive Strengths & Weaknesses

Table 129. HUBER+SUHNER AG (CH) Basic Information, Manufacturing Base and Competitors

Table 130. HUBER+SUHNER AG (CH) Major Business

Table 131. HUBER+SUHNER AG (CH) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 132. HUBER+SUHNER AG (CH) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. HUBER+SUHNER AG (CH) Recent Developments/Updates

Table 134. HUBER+SUHNER AG (CH) Competitive Strengths & Weaknesses

Table 135. Phoenix Contact GmbH & Co. KG (DE) Basic Information, Manufacturing Base and Competitors

Table 136. Phoenix Contact GmbH & Co. KG (DE) Major Business

Table 137. Phoenix Contact GmbH & Co. KG (DE) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 138. Phoenix Contact GmbH & Co. KG (DE) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Phoenix Contact GmbH & Co. KG (DE) Recent Developments/Updates

Table 140. Phoenix Contact GmbH & Co. KG (DE) Competitive Strengths & Weaknesses

Table 141. Taiyo Yuden Co., Ltd. (JP) Basic Information, Manufacturing Base and Competitors

Table 142. Taiyo Yuden Co., Ltd. (JP) Major Business

Table 143. Taiyo Yuden Co., Ltd. (JP) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 144. Taiyo Yuden Co., Ltd. (JP) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Taiyo Yuden Co., Ltd. (JP) Recent Developments/Updates

Table 146. Taiyo Yuden Co., Ltd. (JP) Competitive Strengths & Weaknesses

Table 147. ACPA Technology Co., Ltd. (TW) Basic Information, Manufacturing Base and Competitors

Table 148. ACPA Technology Co., Ltd. (TW) Major Business

Table 149. ACPA Technology Co., Ltd. (TW) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 150. ACPA Technology Co., Ltd. (TW) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. ACPA Technology Co., Ltd. (TW) Recent Developments/Updates

Table 152. ACPA Technology Co., Ltd. (TW) Competitive Strengths & Weaknesses

Table 153. Xiamen SET Electronics Co., Ltd. (CN) Basic Information, Manufacturing Base and Competitors

Table 154. Xiamen SET Electronics Co., Ltd. (CN) Major Business

Table 155. Xiamen SET Electronics Co., Ltd. (CN) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 156. Xiamen SET Electronics Co., Ltd. (CN) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Xiamen SET Electronics Co., Ltd. (CN) Recent Developments/Updates

Table 158. Xiamen SET Electronics Co., Ltd. (CN) Competitive Strengths & Weaknesses

Table 159. Analog Technologies (US) Basic Information, Manufacturing Base and Competitors

Table 160. Analog Technologies (US) Major Business

Table 161. Analog Technologies (US) Gas Discharge Tubes (GDT) Surge Arrestors Product and Services

Table 162. Analog Technologies (US) Gas Discharge Tubes (GDT) Surge Arrestors Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Analog Technologies (US) Recent Developments/Updates

Table 164. Analog Technologies (US) Competitive Strengths & Weaknesses

Table 165. Global Key Players of Gas Discharge Tubes (GDT) Surge Arrestors Upstream (Raw Materials)

Table 166. Global Gas Discharge Tubes (GDT) Surge Arrestors Typical Customers

Table 167. Gas Discharge Tubes (GDT) Surge Arrestors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Gas Discharge Tubes (GDT) Surge Arrestors Picture

Figure 2. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032) & (M Units)

Figure 5. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Region (2021-2032)

Figure 7. World Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share by Region (2021-2032)

Figure 8. North America Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032) & (M Units)

Figure 9. Europe Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032) & (M Units)

Figure 10. China Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032) & (M Units)

Figure 11. Japan Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032) & (M Units)

Figure 12. South Korea Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032) & (M Units)

Figure 13. Southeast Asia Gas Discharge Tubes (GDT) Surge Arrestors Production (2021-2032) & (M Units)

Figure 14. Gas Discharge Tubes (GDT) Surge Arrestors Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032) & (M Units)

Figure 17. World Gas Discharge Tubes (GDT) Surge Arrestors Consumption Market Share by Region (2021-2032)

Figure 18. United States Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032) & (M Units)

Figure 19. China Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032) & (M Units)

Figure 20. Europe Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032) & (M Units)

Figure 21. Japan Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032) & (M Units)

Figure 22. South Korea Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032) & (M Units)

Figure 23. ASEAN Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032) & (M Units)

Figure 24. India Gas Discharge Tubes (GDT) Surge Arrestors Consumption (2021-2032) & (M Units)

Figure 25. Producer Shipments of Gas Discharge Tubes (GDT) Surge Arrestors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Gas Discharge Tubes (GDT) Surge Arrestors Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Gas Discharge Tubes (GDT) Surge Arrestors Markets in 2025

Figure 28. United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Gas Discharge Tubes (GDT) Surge Arrestors Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share 2025

Figure 32. China Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share 2025

Figure 34. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Type in 2025

Figure 36. Two Electrode Type

Figure 37. Three Electrode Type

Figure 38. Others

Figure 39. World Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share by Type (2021-2032)

Figure 40. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Type (2021-2032)

Figure 41. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Mounting Type, (USD Million), 2021 & 2025 & 2032

Figure 43. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Mounting Type in 2025

Figure 44. Surface Mount

Figure 45. Through Hole

Figure 46. Other

Figure 47. World Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share by Mounting Type (2021-2032)

Figure 48. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Mounting Type (2021-2032)

Figure 49. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Mounting Type (2021-2032) & (US\$/Unit)

Figure 50. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Peak Pulse Current, (USD Million), 2021 & 2025 & 2032

Figure 51. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Peak Pulse Current in 2025

Figure 52. ?500A

Figure 53. 500A-1KA

Figure 54. 1-2.5KA

Figure 55. 2.5-5KA

Figure 56. ?5KA

Figure 57. World Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share by Peak Pulse Current (2021-2032)

Figure 58. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Peak Pulse Current (2021-2032)

Figure 59. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Peak Pulse Current (2021-2032) & (US\$/Unit)

Figure 60. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Application in 2025

Figure 62. Telecommunications

Figure 63. Power Supplies

Figure 64. Industrial Control

Figure 65. Photovoltaics

Figure 66. Others

Figure 67. World Gas Discharge Tubes (GDT) Surge Arrestors Production Market Share by Application (2021-2032)

Figure 68. World Gas Discharge Tubes (GDT) Surge Arrestors Production Value Market Share by Application (2021-2032)

Figure 69. World Gas Discharge Tubes (GDT) Surge Arrestors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 70. Gas Discharge Tubes (GDT) Surge Arrestors Industry Chain

Figure 71. Gas Discharge Tubes (GDT) Surge Arrestors Procurement Model

Figure 72. Gas Discharge Tubes (GDT) Surge Arrestors Sales Model

Figure 73. Gas Discharge Tubes (GDT) Surge Arrestors Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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