

# Global Passive Q-switched Crystals for Lasers Market Growth 2026-2032

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## Abstracts

The global Passive Q-switched Crystals for Lasers market size is predicted to grow from US\$ 136 million in 2025 to US\$ 195 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

Passive Q-switched crystals, also known as saturable absorbers, are used as modulators for the laser resonator's quality in passive Q-switched lasers. Unlike active Q-switching, which relies on electronic modulators, passive Q-switching operates through the absorption and saturation properties of the crystal. These materials have low saturation fluence (energy per unit area), which significantly reduces the required saturation energy when applied to focused laser beams. As a result, passive Q-switched crystals are essential for creating high-energy laser pulses without the need for complex electronic control systems. They are widely used in compact, solid-state lasers for medical, industrial, and military applications.

United States market for Passive Q-switched Crystals for Lasers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Passive Q-switched Crystals for Lasers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Passive Q-switched Crystals for Lasers is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Passive Q-switched Crystals for Lasers players cover Northrop Grumman, Altechna, EKSMO Optics, CASTECH, HG Optronics, etc. In terms of revenue, the global

two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Passive Q-switched Crystals for Lasers Industry Forecast” looks at past sales and reviews total world Passive Q-switched Crystals for Lasers sales in 2025, providing a comprehensive analysis by region and market sector of projected Passive Q-switched Crystals for Lasers sales for 2026 through 2032. With Passive Q-switched Crystals for Lasers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Passive Q-switched Crystals for Lasers industry.

This Insight Report provides a comprehensive analysis of the global Passive Q-switched Crystals for Lasers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Passive Q-switched Crystals for Lasers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Passive Q-switched Crystals for Lasers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Passive Q-switched Crystals for Lasers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Passive Q-switched Crystals for Lasers.

This report presents a comprehensive overview, market shares, and growth opportunities of Passive Q-switched Crystals for Lasers market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

V:YAG

Cr:YAG

Co:Spinel

Cr:YSO

Cr:GSGG

**Segmentation by Application:**

Medical

Industrial

Military

Others

**This report also splits the market by region:**

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Northrop Grumman

Altechna

EKSMA Optics

CASTECH

HG Optronics

Laserand

Crylink

Optogama

Advatech

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Passive Q-switched Crystals for Lasers market?

What factors are driving Passive Q-switched Crystals for Lasers market growth, globally and by region?

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

How do Passive Q-switched Crystals for Lasers market opportunities vary by end market size?

How does Passive Q-switched Crystals for Lasers break out by Type, by Application?

**The report requires updating with new data and is sent in 48 hours after order is placed.**

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Passive Q-switched Crystals for Lasers Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Passive Q-switched Crystals for Lasers by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Passive Q-switched Crystals for Lasers by Country/Region, 2021, 2025 & 2032

#### 2.2 Passive Q-switched Crystals for Lasers Segment by Type

- 2.2.1 V:YAG
- 2.2.2 Cr:YAG
- 2.2.3 Co:Spinel
- 2.2.4 Cr:YSO
- 2.2.5 Cr:GSGG
- 2.2.6 Passive Q-switched Crystals for Lasers Sales by Type
  - 2.2.6.1 Global Passive Q-switched Crystals for Lasers Sales Market Share by Type (2021-2026)
  - 2.2.6.2 Global Passive Q-switched Crystals for Lasers Revenue and Market Share by Type (2021-2026)
  - 2.2.6.3 Global Passive Q-switched Crystals for Lasers Sale Price by Type (2021-2026)

#### 2.3 Passive Q-switched Crystals for Lasers Segment by Application

- 2.3.1 Medical
- 2.3.2 Industrial
- 2.3.3 Military
- 2.3.4 Others

### 2.3.5 Passive Q-switched Crystals for Lasers Sales by Application

2.3.5.1 Global Passive Q-switched Crystals for Lasers Sale Market Share by Application (2021-2026)

2.3.5.2 Global Passive Q-switched Crystals for Lasers Revenue and Market Share by Application (2021-2026)

2.3.5.3 Global Passive Q-switched Crystals for Lasers Sale Price by Application (2021-2026)

## **3 GLOBAL BY COMPANY**

### 3.1 Global Passive Q-switched Crystals for Lasers Breakdown Data by Company

3.1.1 Global Passive Q-switched Crystals for Lasers Annual Sales by Company (2021-2026)

3.1.2 Global Passive Q-switched Crystals for Lasers Sales Market Share by Company (2021-2026)

3.2 Global Passive Q-switched Crystals for Lasers Annual Revenue by Company (2021-2026)

3.2.1 Global Passive Q-switched Crystals for Lasers Revenue by Company (2021-2026)

3.2.2 Global Passive Q-switched Crystals for Lasers Revenue Market Share by Company (2021-2026)

3.3 Global Passive Q-switched Crystals for Lasers Sale Price by Company

3.4 Key Manufacturers Passive Q-switched Crystals for Lasers Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Passive Q-switched Crystals for Lasers Product Location Distribution

3.4.2 Players Passive Q-switched Crystals for Lasers Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR PASSIVE Q-SWITCHED CRYSTALS FOR LASERS BY GEOGRAPHIC REGION**

4.1 World Historic Passive Q-switched Crystals for Lasers Market Size by Geographic Region (2021-2026)

4.1.1 Global Passive Q-switched Crystals for Lasers Annual Sales by Geographic

Region (2021-2026)

4.1.2 Global Passive Q-switched Crystals for Lasers Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Passive Q-switched Crystals for Lasers Market Size by Country/Region (2021-2026)

4.2.1 Global Passive Q-switched Crystals for Lasers Annual Sales by Country/Region (2021-2026)

4.2.2 Global Passive Q-switched Crystals for Lasers Annual Revenue by Country/Region (2021-2026)

4.3 Americas Passive Q-switched Crystals for Lasers Sales Growth

4.4 APAC Passive Q-switched Crystals for Lasers Sales Growth

4.5 Europe Passive Q-switched Crystals for Lasers Sales Growth

4.6 Middle East & Africa Passive Q-switched Crystals for Lasers Sales Growth

## **5 AMERICAS**

5.1 Americas Passive Q-switched Crystals for Lasers Sales by Country

5.1.1 Americas Passive Q-switched Crystals for Lasers Sales by Country (2021-2026)

5.1.2 Americas Passive Q-switched Crystals for Lasers Revenue by Country (2021-2026)

5.2 Americas Passive Q-switched Crystals for Lasers Sales by Type (2021-2026)

5.3 Americas Passive Q-switched Crystals for Lasers Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Passive Q-switched Crystals for Lasers Sales by Region

6.1.1 APAC Passive Q-switched Crystals for Lasers Sales by Region (2021-2026)

6.1.2 APAC Passive Q-switched Crystals for Lasers Revenue by Region (2021-2026)

6.2 APAC Passive Q-switched Crystals for Lasers Sales by Type (2021-2026)

6.3 APAC Passive Q-switched Crystals for Lasers Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Passive Q-switched Crystals for Lasers by Country

7.1.1 Europe Passive Q-switched Crystals for Lasers Sales by Country (2021-2026)

7.1.2 Europe Passive Q-switched Crystals for Lasers Revenue by Country  
(2021-2026)

7.2 Europe Passive Q-switched Crystals for Lasers Sales by Type (2021-2026)

7.3 Europe Passive Q-switched Crystals for Lasers Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

## **8 MIDDLE EAST & AFRICA**

8.1 Middle East & Africa Passive Q-switched Crystals for Lasers by Country

8.1.1 Middle East & Africa Passive Q-switched Crystals for Lasers Sales by Country  
(2021-2026)

8.1.2 Middle East & Africa Passive Q-switched Crystals for Lasers Revenue by  
Country (2021-2026)

8.2 Middle East & Africa Passive Q-switched Crystals for Lasers Sales by Type  
(2021-2026)

8.3 Middle East & Africa Passive Q-switched Crystals for Lasers Sales by Application  
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Passive Q-switched Crystals for Lasers
- 10.3 Manufacturing Process Analysis of Passive Q-switched Crystals for Lasers
- 10.4 Industry Chain Structure of Passive Q-switched Crystals for Lasers

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Passive Q-switched Crystals for Lasers Distributors
- 11.3 Passive Q-switched Crystals for Lasers Customer

## **12 WORLD FORECAST REVIEW FOR PASSIVE Q-SWITCHED CRYSTALS FOR LASERS BY GEOGRAPHIC REGION**

- 12.1 Global Passive Q-switched Crystals for Lasers Market Size Forecast by Region
  - 12.1.1 Global Passive Q-switched Crystals for Lasers Forecast by Region (2027-2032)
  - 12.1.2 Global Passive Q-switched Crystals for Lasers Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Passive Q-switched Crystals for Lasers Forecast by Type (2027-2032)
- 12.7 Global Passive Q-switched Crystals for Lasers Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 Northrop Grumman
  - 13.1.1 Northrop Grumman Company Information
  - 13.1.2 Northrop Grumman Passive Q-switched Crystals for Lasers Product Portfolios and Specifications
  - 13.1.3 Northrop Grumman Passive Q-switched Crystals for Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.1.4 Northrop Grumman Main Business Overview
- 13.1.5 Northrop Grumman Latest Developments
- 13.2 Altechna
  - 13.2.1 Altechna Company Information
  - 13.2.2 Altechna Passive Q-switched Crystals for Lasers Product Portfolios and Specifications
  - 13.2.3 Altechna Passive Q-switched Crystals for Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 Altechna Main Business Overview
  - 13.2.5 Altechna Latest Developments
- 13.3 EKSMA Optics
  - 13.3.1 EKSMA Optics Company Information
  - 13.3.2 EKSMA Optics Passive Q-switched Crystals for Lasers Product Portfolios and Specifications
  - 13.3.3 EKSMA Optics Passive Q-switched Crystals for Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.3.4 EKSMA Optics Main Business Overview
  - 13.3.5 EKSMA Optics Latest Developments
- 13.4 CASTECH
  - 13.4.1 CASTECH Company Information
  - 13.4.2 CASTECH Passive Q-switched Crystals for Lasers Product Portfolios and Specifications
  - 13.4.3 CASTECH Passive Q-switched Crystals for Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.4.4 CASTECH Main Business Overview
  - 13.4.5 CASTECH Latest Developments
- 13.5 HG Optronics
  - 13.5.1 HG Optronics Company Information
  - 13.5.2 HG Optronics Passive Q-switched Crystals for Lasers Product Portfolios and Specifications
  - 13.5.3 HG Optronics Passive Q-switched Crystals for Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 HG Optronics Main Business Overview
  - 13.5.5 HG Optronics Latest Developments
- 13.6 Laserand
  - 13.6.1 Laserand Company Information
  - 13.6.2 Laserand Passive Q-switched Crystals for Lasers Product Portfolios and Specifications
  - 13.6.3 Laserand Passive Q-switched Crystals for Lasers Sales, Revenue, Price and

## Gross Margin (2021-2026)

13.6.4 Laserand Main Business Overview

13.6.5 Laserand Latest Developments

## 13.7 Crylink

13.7.1 Crylink Company Information

13.7.2 Crylink Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

13.7.3 Crylink Passive Q-switched Crystals for Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Crylink Main Business Overview

13.7.5 Crylink Latest Developments

## 13.8 Optogama

13.8.1 Optogama Company Information

13.8.2 Optogama Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

13.8.3 Optogama Passive Q-switched Crystals for Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Optogama Main Business Overview

13.8.5 Optogama Latest Developments

## 13.9 Advatech

13.9.1 Advatech Company Information

13.9.2 Advatech Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

13.9.3 Advatech Passive Q-switched Crystals for Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Advatech Main Business Overview

13.9.5 Advatech Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. Passive Q-switched Crystals for Lasers Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Passive Q-switched Crystals for Lasers Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of V:YAG
- Table 4. Major Players of Cr:YAG
- Table 5. Major Players of Co:Spinel
- Table 6. Major Players of Cr:YSO
- Table 7. Major Players of Cr:GSGG
- Table 8. Global Passive Q-switched Crystals for Lasers Sales by Type (2021-2026) & (Tons)
- Table 9. Global Passive Q-switched Crystals for Lasers Sales Market Share by Type (2021-2026)
- Table 10. Global Passive Q-switched Crystals for Lasers Revenue by Type (2021-2026) & (\$ million)
- Table 11. Global Passive Q-switched Crystals for Lasers Revenue Market Share by Type (2021-2026)
- Table 12. Global Passive Q-switched Crystals for Lasers Sale Price by Type (2021-2026) & (US\$/Ton)
- Table 13. Global Passive Q-switched Crystals for Lasers Sale by Application (2021-2026) & (Tons)
- Table 14. Global Passive Q-switched Crystals for Lasers Sale Market Share by Application (2021-2026)
- Table 15. Global Passive Q-switched Crystals for Lasers Revenue by Application (2021-2026) & (\$ million)
- Table 16. Global Passive Q-switched Crystals for Lasers Revenue Market Share by Application (2021-2026)
- Table 17. Global Passive Q-switched Crystals for Lasers Sale Price by Application (2021-2026) & (US\$/Ton)
- Table 18. Global Passive Q-switched Crystals for Lasers Sales by Company (2021-2026) & (Tons)
- Table 19. Global Passive Q-switched Crystals for Lasers Sales Market Share by Company (2021-2026)
- Table 20. Global Passive Q-switched Crystals for Lasers Revenue by Company (2021-2026) & (\$ millions)

Table 21. Global Passive Q-switched Crystals for Lasers Revenue Market Share by Company (2021-2026)

Table 22. Global Passive Q-switched Crystals for Lasers Sale Price by Company (2021-2026) & (US\$/Ton)

Table 23. Key Manufacturers Passive Q-switched Crystals for Lasers Producing Area Distribution and Sales Area

Table 24. Players Passive Q-switched Crystals for Lasers Products Offered

Table 25. Passive Q-switched Crystals for Lasers Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 26. New Products and Potential Entrants

Table 27. Market M&A Activity & Strategy

Table 28. Global Passive Q-switched Crystals for Lasers Sales by Geographic Region (2021-2026) & (Tons)

Table 29. Global Passive Q-switched Crystals for Lasers Sales Market Share Geographic Region (2021-2026)

Table 30. Global Passive Q-switched Crystals for Lasers Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 31. Global Passive Q-switched Crystals for Lasers Revenue Market Share by Geographic Region (2021-2026)

Table 32. Global Passive Q-switched Crystals for Lasers Sales by Country/Region (2021-2026) & (Tons)

Table 33. Global Passive Q-switched Crystals for Lasers Sales Market Share by Country/Region (2021-2026)

Table 34. Global Passive Q-switched Crystals for Lasers Revenue by Country/Region (2021-2026) & (\$ millions)

Table 35. Global Passive Q-switched Crystals for Lasers Revenue Market Share by Country/Region (2021-2026)

Table 36. Americas Passive Q-switched Crystals for Lasers Sales by Country (2021-2026) & (Tons)

Table 37. Americas Passive Q-switched Crystals for Lasers Sales Market Share by Country (2021-2026)

Table 38. Americas Passive Q-switched Crystals for Lasers Revenue by Country (2021-2026) & (\$ millions)

Table 39. Americas Passive Q-switched Crystals for Lasers Sales by Type (2021-2026) & (Tons)

Table 40. Americas Passive Q-switched Crystals for Lasers Sales by Application (2021-2026) & (Tons)

Table 41. APAC Passive Q-switched Crystals for Lasers Sales by Region (2021-2026) & (Tons)

Table 42. APAC Passive Q-switched Crystals for Lasers Sales Market Share by Region (2021-2026)

Table 43. APAC Passive Q-switched Crystals for Lasers Revenue by Region (2021-2026) & (\$ millions)

Table 44. APAC Passive Q-switched Crystals for Lasers Sales by Type (2021-2026) & (Tons)

Table 45. APAC Passive Q-switched Crystals for Lasers Sales by Application (2021-2026) & (Tons)

Table 46. Europe Passive Q-switched Crystals for Lasers Sales by Country (2021-2026) & (Tons)

Table 47. Europe Passive Q-switched Crystals for Lasers Revenue by Country (2021-2026) & (\$ millions)

Table 48. Europe Passive Q-switched Crystals for Lasers Sales by Type (2021-2026) & (Tons)

Table 49. Europe Passive Q-switched Crystals for Lasers Sales by Application (2021-2026) & (Tons)

Table 50. Middle East & Africa Passive Q-switched Crystals for Lasers Sales by Country (2021-2026) & (Tons)

Table 51. Middle East & Africa Passive Q-switched Crystals for Lasers Revenue Market Share by Country (2021-2026)

Table 52. Middle East & Africa Passive Q-switched Crystals for Lasers Sales by Type (2021-2026) & (Tons)

Table 53. Middle East & Africa Passive Q-switched Crystals for Lasers Sales by Application (2021-2026) & (Tons)

Table 54. Key Market Drivers & Growth Opportunities of Passive Q-switched Crystals for Lasers

Table 55. Key Market Challenges & Risks of Passive Q-switched Crystals for Lasers

Table 56. Key Industry Trends of Passive Q-switched Crystals for Lasers

Table 57. Passive Q-switched Crystals for Lasers Raw Material

Table 58. Key Suppliers of Raw Materials

Table 59. Passive Q-switched Crystals for Lasers Distributors List

Table 60. Passive Q-switched Crystals for Lasers Customer List

Table 61. Global Passive Q-switched Crystals for Lasers Sales Forecast by Region (2027-2032) & (Tons)

Table 62. Global Passive Q-switched Crystals for Lasers Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 63. Americas Passive Q-switched Crystals for Lasers Sales Forecast by Country (2027-2032) & (Tons)

Table 64. Americas Passive Q-switched Crystals for Lasers Annual Revenue Forecast

by Country (2027-2032) & (\$ millions)

Table 65. APAC Passive Q-switched Crystals for Lasers Sales Forecast by Region (2027-2032) & (Tons)

Table 66. APAC Passive Q-switched Crystals for Lasers Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 67. Europe Passive Q-switched Crystals for Lasers Sales Forecast by Country (2027-2032) & (Tons)

Table 68. Europe Passive Q-switched Crystals for Lasers Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. Middle East & Africa Passive Q-switched Crystals for Lasers Sales Forecast by Country (2027-2032) & (Tons)

Table 70. Middle East & Africa Passive Q-switched Crystals for Lasers Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 71. Global Passive Q-switched Crystals for Lasers Sales Forecast by Type (2027-2032) & (Tons)

Table 72. Global Passive Q-switched Crystals for Lasers Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 73. Global Passive Q-switched Crystals for Lasers Sales Forecast by Application (2027-2032) & (Tons)

Table 74. Global Passive Q-switched Crystals for Lasers Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 75. Northrop Grumman Basic Information, Passive Q-switched Crystals for Lasers Manufacturing Base, Sales Area and Its Competitors

Table 76. Northrop Grumman Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

Table 77. Northrop Grumman Passive Q-switched Crystals for Lasers Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 78. Northrop Grumman Main Business

Table 79. Northrop Grumman Latest Developments

Table 80. Altechna Basic Information, Passive Q-switched Crystals for Lasers Manufacturing Base, Sales Area and Its Competitors

Table 81. Altechna Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

Table 82. Altechna Passive Q-switched Crystals for Lasers Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 83. Altechna Main Business

Table 84. Altechna Latest Developments

Table 85. EKSMA Optics Basic Information, Passive Q-switched Crystals for Lasers Manufacturing Base, Sales Area and Its Competitors

Table 86. EKSMA Optics Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

Table 87. EKSMA Optics Passive Q-switched Crystals for Lasers Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 88. EKSMA Optics Main Business

Table 89. EKSMA Optics Latest Developments

Table 90. CASTECH Basic Information, Passive Q-switched Crystals for Lasers Manufacturing Base, Sales Area and Its Competitors

Table 91. CASTECH Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

Table 92. CASTECH Passive Q-switched Crystals for Lasers Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 93. CASTECH Main Business

Table 94. CASTECH Latest Developments

Table 95. HG Optronics Basic Information, Passive Q-switched Crystals for Lasers Manufacturing Base, Sales Area and Its Competitors

Table 96. HG Optronics Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

Table 97. HG Optronics Passive Q-switched Crystals for Lasers Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 98. HG Optronics Main Business

Table 99. HG Optronics Latest Developments

Table 100. Laserand Basic Information, Passive Q-switched Crystals for Lasers Manufacturing Base, Sales Area and Its Competitors

Table 101. Laserand Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

Table 102. Laserand Passive Q-switched Crystals for Lasers Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 103. Laserand Main Business

Table 104. Laserand Latest Developments

Table 105. Crylink Basic Information, Passive Q-switched Crystals for Lasers Manufacturing Base, Sales Area and Its Competitors

Table 106. Crylink Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

Table 107. Crylink Passive Q-switched Crystals for Lasers Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 108. Crylink Main Business

Table 109. Crylink Latest Developments

Table 110. Optogama Basic Information, Passive Q-switched Crystals for Lasers

Manufacturing Base, Sales Area and Its Competitors

Table 111. Optogama Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

Table 112. Optogama Passive Q-switched Crystals for Lasers Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 113. Optogama Main Business

Table 114. Optogama Latest Developments

Table 115. Advatech Basic Information, Passive Q-switched Crystals for Lasers Manufacturing Base, Sales Area and Its Competitors

Table 116. Advatech Passive Q-switched Crystals for Lasers Product Portfolios and Specifications

Table 117. Advatech Passive Q-switched Crystals for Lasers Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 118. Advatech Main Business

Table 119. Advatech Latest Developments

## List Of Figures

### LIST OF FIGURES

Figure 1. Picture of Passive Q-switched Crystals for Lasers

Figure 2. Passive Q-switched Crystals for Lasers Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Passive Q-switched Crystals for Lasers Sales Growth Rate 2021-2032 (Tons)

Figure 7. Global Passive Q-switched Crystals for Lasers Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Passive Q-switched Crystals for Lasers Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Passive Q-switched Crystals for Lasers Sales Market Share by Country/Region (2025)

Figure 10. Passive Q-switched Crystals for Lasers Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of V:YAG

Figure 12. Product Picture of Cr:YAG

Figure 13. Product Picture of Co:Spinel

Figure 14. Product Picture of Cr:YSO

Figure 15. Product Picture of Cr:GSGG

Figure 16. Global Passive Q-switched Crystals for Lasers Sales Market Share by Type in 2026

Figure 17. Global Passive Q-switched Crystals for Lasers Revenue Market Share by Type (2021-2026)

Figure 18. Passive Q-switched Crystals for Lasers Consumed in Medical

Figure 19. Global Passive Q-switched Crystals for Lasers Market: Medical (2021-2026) & (Tons)

Figure 20. Passive Q-switched Crystals for Lasers Consumed in Industrial

Figure 21. Global Passive Q-switched Crystals for Lasers Market: Industrial (2021-2026) & (Tons)

Figure 22. Passive Q-switched Crystals for Lasers Consumed in Military

Figure 23. Global Passive Q-switched Crystals for Lasers Market: Military (2021-2026) & (Tons)

Figure 24. Passive Q-switched Crystals for Lasers Consumed in Others

Figure 25. Global Passive Q-switched Crystals for Lasers Market: Others (2021-2026) &

(Tons)

Figure 26. Global Passive Q-switched Crystals for Lasers Sale Market Share by Application (2025)

Figure 27. Global Passive Q-switched Crystals for Lasers Revenue Market Share by Application in 2026

Figure 28. Passive Q-switched Crystals for Lasers Sales by Company in 2026 (Tons)

Figure 29. Global Passive Q-switched Crystals for Lasers Sales Market Share by Company in 2026

Figure 30. Passive Q-switched Crystals for Lasers Revenue by Company in 2026 (\$ millions)

Figure 31. Global Passive Q-switched Crystals for Lasers Revenue Market Share by Company in 2026

Figure 32. Global Passive Q-switched Crystals for Lasers Sales Market Share by Geographic Region (2021-2026)

Figure 33. Global Passive Q-switched Crystals for Lasers Revenue Market Share by Geographic Region in 2026

Figure 34. Americas Passive Q-switched Crystals for Lasers Sales 2021-2026 (Tons)

Figure 35. Americas Passive Q-switched Crystals for Lasers Revenue 2021-2026 (\$ millions)

Figure 36. APAC Passive Q-switched Crystals for Lasers Sales 2021-2026 (Tons)

Figure 37. APAC Passive Q-switched Crystals for Lasers Revenue 2021-2026 (\$ millions)

Figure 38. Europe Passive Q-switched Crystals for Lasers Sales 2021-2026 (Tons)

Figure 39. Europe Passive Q-switched Crystals for Lasers Revenue 2021-2026 (\$ millions)

Figure 40. Middle East & Africa Passive Q-switched Crystals for Lasers Sales 2021-2026 (Tons)

Figure 41. Middle East & Africa Passive Q-switched Crystals for Lasers Revenue 2021-2026 (\$ millions)

Figure 42. Americas Passive Q-switched Crystals for Lasers Sales Market Share by Country in 2026

Figure 43. Americas Passive Q-switched Crystals for Lasers Revenue Market Share by Country (2021-2026)

Figure 44. Americas Passive Q-switched Crystals for Lasers Sales Market Share by Type (2021-2026)

Figure 45. Americas Passive Q-switched Crystals for Lasers Sales Market Share by Application (2021-2026)

Figure 46. United States Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 47. Canada Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 48. Mexico Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 49. Brazil Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 50. APAC Passive Q-switched Crystals for Lasers Sales Market Share by Region in 2026

Figure 51. APAC Passive Q-switched Crystals for Lasers Revenue Market Share by Region (2021-2026)

Figure 52. APAC Passive Q-switched Crystals for Lasers Sales Market Share by Type (2021-2026)

Figure 53. APAC Passive Q-switched Crystals for Lasers Sales Market Share by Application (2021-2026)

Figure 54. China Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 55. Japan Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 56. South Korea Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 57. Southeast Asia Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 58. India Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 59. Australia Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 60. China Taiwan Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 61. Europe Passive Q-switched Crystals for Lasers Sales Market Share by Country in 2026

Figure 62. Europe Passive Q-switched Crystals for Lasers Revenue Market Share by Country (2021-2026)

Figure 63. Europe Passive Q-switched Crystals for Lasers Sales Market Share by Type (2021-2026)

Figure 64. Europe Passive Q-switched Crystals for Lasers Sales Market Share by Application (2021-2026)

Figure 65. Germany Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 66. France Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026

(\$ millions)

Figure 67. UK Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 68. Italy Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 69. Russia Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 70. Middle East & Africa Passive Q-switched Crystals for Lasers Sales Market Share by Country (2021-2026)

Figure 71. Middle East & Africa Passive Q-switched Crystals for Lasers Sales Market Share by Type (2021-2026)

Figure 72. Middle East & Africa Passive Q-switched Crystals for Lasers Sales Market Share by Application (2021-2026)

Figure 73. Egypt Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 74. South Africa Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 75. Israel Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 76. Turkey Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 77. GCC Countries Passive Q-switched Crystals for Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Passive Q-switched Crystals for Lasers in 2026

Figure 79. Manufacturing Process Analysis of Passive Q-switched Crystals for Lasers

Figure 80. Industry Chain Structure of Passive Q-switched Crystals for Lasers

Figure 81. Channels of Distribution

Figure 82. Global Passive Q-switched Crystals for Lasers Sales Market Forecast by Region (2027-2032)

Figure 83. Global Passive Q-switched Crystals for Lasers Revenue Market Share Forecast by Region (2027-2032)

Figure 84. Global Passive Q-switched Crystals for Lasers Sales Market Share Forecast by Type (2027-2032)

Figure 85. Global Passive Q-switched Crystals for Lasers Revenue Market Share Forecast by Type (2027-2032)

Figure 86. Global Passive Q-switched Crystals for Lasers Sales Market Share Forecast by Application (2027-2032)

Figure 87. Global Passive Q-switched Crystals for Lasers Revenue Market Share

## Forecast by Application (2027-2032)

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