

Global X7R Capacitor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global X7R Capacitor market size is expected to reach \$ 10202 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

An X7R Capacitor generally refers to a multilayer ceramic capacitor using an X7R dielectric system, most commonly in surface-mount chip form. It is typically a rectangular ceramic component with metal terminations at both ends. Internally, it consists of multiple alternating layers of high-permittivity ceramic dielectric and metal electrodes that are laminated, diced, debound, co-fired, and terminated into a monolithic structure. Its main material system usually includes barium-titanate-based ceramic dielectric, nickel internal electrodes, and external termination metals. X7R is an EIA Class II dielectric characterized by capacitance variation within $\pm 15\%$ over the temperature range of -55°C to $+125^{\circ}\text{C}$, providing a practical balance among capacitance density, size, cost, and temperature performance. X7R capacitors can be categorized by package size, rated voltage, capacitance value, tolerance, termination structure, and whether they are automotive-grade or high-temperature-grade. Their principal functions include decoupling, bypassing, filtering, energy storage, coupling, and general signal conditioning in electronic circuits. They are widely used in smartphones, PCs, communication equipment, power modules, industrial control systems, automotive electronics, servers, AI hardware, and a broad range of consumer electronics. They are primarily manufactured by MLCC and passive-component suppliers with strong capabilities in materials engineering, precision processing, scale manufacturing, and customer qualification.

X7R Capacitors represent far more than a standardized passive component category. They embody a critical enabling capability positioned at the intersection of high density, miniaturization, reliability, and cost efficiency across the electronics value chain. Their

strategic value lies in the ability of a Class II ceramic dielectric system to deliver a practical balance among capacitance density, compact size, thermal adaptability, and commercial viability, making them indispensable for decoupling, bypassing, filtering, and energy storage in smart devices, automotive electronics, industrial power systems, communications equipment, and computing infrastructure. For investors and corporate decision-makers, the most compelling opportunity does not rest on a single end-market cycle, but on the structural rise in capacitance content per device as electronic systems become more complex. Vehicle electrification and intelligence are expanding demand for high-reliability MLCCs, AI servers, power modules, and data-center upgrades are raising the importance of high-capacitance and high-stability devices, while industrial automation and new energy equipment continue to broaden the adoption of wide-temperature and long-life components. Public materials from leading suppliers such as Murata and KYOCERA AVX also reinforce that X7R remains a mainstream and highly practical dielectric for broad operating environments, underscoring its role as a platform component in the upgrading of modern electronic architectures.

That said, the X7R capacitor market is not a straightforward growth story that can be projected linearly from rising demand. Its real barriers are rooted in the combined complexity of materials engineering, process control, yield management, customer qualification, and global supply-chain coordination. While X7R offers broad temperature usability, its capacitance is still affected by DC bias, frequency, and mechanical stress, meaning that in advanced power, automotive, and high-reliability applications, the actual design window matters far more than nominal specifications. As a result, suppliers must provide not only components, but also application-level engineering support. At the same time, the MLCC industry remains constrained by demanding requirements in barium titanate powder systems, nickel internal electrodes, ultra-thin dielectric stacking, co-firing consistency, termination reliability, and AEC-Q200 qualification, which means that capacity expansion does not automatically translate into effective high-end supply. For challengers, the hurdle is not merely capital expenditure, but the long and expensive journey from consumer-grade participation to industrial- and automotive-grade qualification. For incumbents, the principal risks stem from end-market mix shifts, portfolio mismatch, regional supply-chain reconfiguration, and the ongoing R&D burden associated with migration toward stricter reliability specifications.

From a downstream demand perspective, X7R capacitors are evolving from widely used general-purpose parts into components that increasingly determine system stability and integration efficiency. Consumer electronics will remain an important baseline market, but the real redistribution of value is being driven by accelerated penetration into automotive electronics, AI servers, industrial control systems, energy conversion

equipment, and communications infrastructure. Going forward, purchasing logic among downstream customers is likely to move away from unit price alone and toward a broader evaluation framework centered on long-term supply assurance, lot-to-lot consistency, wide-temperature reliability, failure-risk control, and co-engineering capability. In electric vehicles, ADAS platforms, server power architectures, industrial inverters, and high-density board-level designs, X7R is set to remain one of the most universal mainstream dielectric choices because of its strong balance among capacitance, cost, and packaging efficiency. The companies best positioned for the next cycle of MLCC competition will be those capable of building a closed-loop advantage across high-capacitance miniaturization, automotive-grade reliability, resilient global delivery, and collaborative customer development. For buyers and policymakers alike, X7R is no longer merely a component sourcing issue; it is increasingly a lens through which manufacturing resilience and advanced electronics capability can be assessed.

This report studies the global X7R Capacitor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for X7R Capacitor 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 X7R Capacitor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global X7R Capacitor total production and demand, 2021-2032, (K Units)

Global X7R Capacitor total production value, 2021-2032, (USD Million)

Global X7R Capacitor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global X7R Capacitor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: X7R Capacitor domestic production, consumption, key domestic manufacturers and share

Global X7R Capacitor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global X7R Capacitor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global X7R Capacitor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global X7R Capacitor 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, KYOCERA AVX, Murata, Samsung Electro-Mechanics, YAGEO, Vishay, Taiyo Yuden, Walsin, Darfon, Holy Stone, 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 X7R Capacitor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 X7R Capacitor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global X7R Capacitor Market, Segmentation by Type:

Ceramic Capacitor

Polymer Capacitor

Global X7R Capacitor Market, Segmentation by Internal Electrode System:

Base Metal Electrode (BME) X7R Capacitor

Precious Metal Electrode (PME) X7R Capacitor

Global X7R Capacitor Market, Segmentation by Mounting and Lead Configuration:

Surface-Mount Chip X7R Capacitor

Radial Leaded X7R Capacitor

Axial Leaded X7R Capacitor

Stacked Ceramic X7R Capacitor

Global X7R Capacitor Market, Segmentation by Rated Voltage Class:

Low-Voltage X7R Capacitor (?50 VDC)

Medium-Voltage X7R Capacitor (51?250 VDC)

High-Voltage X7R Capacitor (251?1000 VDC)

Ultra-High-Voltage X7R Capacitor (>1000 VDC)

Global X7R Capacitor Market, Segmentation by Application:

Electronics

Automotive

Aerospace

Companies Profiled:

TDK

KYOCERA AVX

Murata

Samsung Electro-Mechanics

YAGEO

Vishay

Taiyo Yuden

Walsin

Darfon

Holy Stone

Chaozhou Three-Circle

Fenghua Advanced Technology

Torch Electronics

EYANG

MARUWA

Key Questions Answered:

1. How big is the global X7R Capacitor market?

Global X7R Capacitor Supply, Demand and Key Producers, 2026-2032

2. What is the demand of the global X7R Capacitor market?
3. What is the year over year growth of the global X7R Capacitor market?
4. What is the production and production value of the global X7R Capacitor market?
5. Who are the key producers in the global X7R Capacitor market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 X7R Capacitor Introduction
- 1.2 World X7R Capacitor Supply & Forecast
 - 1.2.1 World X7R Capacitor Production Value (2021 & 2025 & 2032)
 - 1.2.2 World X7R Capacitor Production (2021-2032)
 - 1.2.3 World X7R Capacitor Pricing Trends (2021-2032)
- 1.3 World X7R Capacitor Production by Region (Based on Production Site)
 - 1.3.1 World X7R Capacitor Production Value by Region (2021-2032)
 - 1.3.2 World X7R Capacitor Production by Region (2021-2032)
 - 1.3.3 World X7R Capacitor Average Price by Region (2021-2032)
 - 1.3.4 North America X7R Capacitor Production (2021-2032)
 - 1.3.5 Europe X7R Capacitor Production (2021-2032)
 - 1.3.6 Japan X7R Capacitor Production (2021-2032)
 - 1.3.7 Thailand X7R Capacitor Production (2021-2032)
 - 1.3.8 South Korea X7R Capacitor Production (2021-2032)
 - 1.3.9 China X7R Capacitor Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 X7R Capacitor Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 X7R Capacitor Major Market Trends

2 DEMAND SUMMARY

- 2.1 World X7R Capacitor Demand (2021-2032)
- 2.2 World X7R Capacitor Consumption by Region
 - 2.2.1 World X7R Capacitor Consumption by Region (2021-2026)
 - 2.2.2 World X7R Capacitor Consumption Forecast by Region (2027-2032)
- 2.3 United States X7R Capacitor Consumption (2021-2032)
- 2.4 China X7R Capacitor Consumption (2021-2032)
- 2.5 Europe X7R Capacitor Consumption (2021-2032)
- 2.6 Japan X7R Capacitor Consumption (2021-2032)
- 2.7 South Korea X7R Capacitor Consumption (2021-2032)
- 2.8 ASEAN X7R Capacitor Consumption (2021-2032)
- 2.9 India X7R Capacitor Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World X7R Capacitor Production Value by Manufacturer (2021-2026)

3.2 World X7R Capacitor Production by Manufacturer (2021-2026)

3.3 World X7R Capacitor Average Price by Manufacturer (2021-2026)

3.4 X7R Capacitor Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global X7R Capacitor Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for X7R Capacitor in 2025

3.5.3 Global Concentration Ratios (CR8) for X7R Capacitor in 2025

3.6 X7R Capacitor Market: Overall Company Footprint Analysis

3.6.1 X7R Capacitor Market: Region Footprint

3.6.2 X7R Capacitor Market: Company Product Type Footprint

3.6.3 X7R Capacitor 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: X7R Capacitor Production Value Comparison

4.1.1 United States VS China: X7R Capacitor Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: X7R Capacitor Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: X7R Capacitor Production Comparison

4.2.1 United States VS China: X7R Capacitor Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: X7R Capacitor Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: X7R Capacitor Consumption Comparison

4.3.1 United States VS China: X7R Capacitor Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: X7R Capacitor Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based X7R Capacitor Manufacturers and Market Share, 2021-2026

4.4.1 United States Based X7R Capacitor Manufacturers, Headquarters and Production

Site (States, Country)

4.4.2 United States Based Manufacturers X7R Capacitor Production Value (2021-2026)

4.4.3 United States Based Manufacturers X7R Capacitor Production (2021-2026)

4.5 China Based X7R Capacitor Manufacturers and Market Share

4.5.1 China Based X7R Capacitor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers X7R Capacitor Production Value (2021-2026)

4.5.3 China Based Manufacturers X7R Capacitor Production (2021-2026)

4.6 Rest of World Based X7R Capacitor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based X7R Capacitor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers X7R Capacitor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers X7R Capacitor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World X7R Capacitor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Ceramic Capacitor

5.2.2 Polymer Capacitor

5.3 Market Segment by Type

5.3.1 World X7R Capacitor Production by Type (2021-2032)

5.3.2 World X7R Capacitor Production Value by Type (2021-2032)

5.3.3 World X7R Capacitor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INTERNAL ELECTRODE SYSTEM

6.1 World X7R Capacitor Market Size Overview by Internal Electrode System: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Internal Electrode System

6.2.1 Base Metal Electrode (BME) X7R Capacitor

6.2.2 Precious Metal Electrode (PME) X7R Capacitor

6.3 Market Segment by Internal Electrode System

6.3.1 World X7R Capacitor Production by Internal Electrode System (2021-2032)

6.3.2 World X7R Capacitor Production Value by Internal Electrode System (2021-2032)

6.3.3 World X7R Capacitor Average Price by Internal Electrode System (2021-2032)

7 MARKET ANALYSIS BY MOUNTING AND LEAD CONFIGURATION

7.1 World X7R Capacitor Market Size Overview by Mounting and Lead Configuration: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Mounting and Lead Configuration

7.2.1 Surface-Mount Chip X7R Capacitor

7.2.2 Radial Leaded X7R Capacitor

7.2.3 Axial Leaded X7R Capacitor

7.2.4 Stacked Ceramic X7R Capacitor

7.3 Market Segment by Mounting and Lead Configuration

7.3.1 World X7R Capacitor Production by Mounting and Lead Configuration (2021-2032)

7.3.2 World X7R Capacitor Production Value by Mounting and Lead Configuration (2021-2032)

7.3.3 World X7R Capacitor Average Price by Mounting and Lead Configuration (2021-2032)

8 MARKET ANALYSIS BY RATED VOLTAGE CLASS

8.1 World X7R Capacitor Market Size Overview by Rated Voltage Class: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Rated Voltage Class

8.2.1 Low-Voltage X7R Capacitor (?50 VDC)

8.2.2 Medium-Voltage X7R Capacitor (51?250 VDC)

8.2.3 High-Voltage X7R Capacitor (251?1000 VDC)

8.2.4 Ultra-High-Voltage X7R Capacitor (>1000 VDC)

8.3 Market Segment by Rated Voltage Class

8.3.1 World X7R Capacitor Production by Rated Voltage Class (2021-2032)

8.3.2 World X7R Capacitor Production Value by Rated Voltage Class (2021-2032)

8.3.3 World X7R Capacitor Average Price by Rated Voltage Class (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World X7R Capacitor Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Electronics

9.2.2 Automotive

9.2.3 Aerospace

9.3 Market Segment by Application

9.3.1 World X7R Capacitor Production by Application (2021-2032)

9.3.2 World X7R Capacitor Production Value by Application (2021-2032)

9.3.3 World X7R Capacitor Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 TDK

10.1.1 TDK Details

10.1.2 TDK Major Business

10.1.3 TDK X7R Capacitor Product and Services

10.1.4 TDK X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 TDK Recent Developments/Updates

10.1.6 TDK Competitive Strengths & Weaknesses

10.2 KYOCERA AVX

10.2.1 KYOCERA AVX Details

10.2.2 KYOCERA AVX Major Business

10.2.3 KYOCERA AVX X7R Capacitor Product and Services

10.2.4 KYOCERA AVX X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 KYOCERA AVX Recent Developments/Updates

10.2.6 KYOCERA AVX Competitive Strengths & Weaknesses

10.3 Murata

10.3.1 Murata Details

10.3.2 Murata Major Business

10.3.3 Murata X7R Capacitor Product and Services

10.3.4 Murata X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Murata Recent Developments/Updates

10.3.6 Murata Competitive Strengths & Weaknesses

10.4 Samsung Electro-Mechanics

10.4.1 Samsung Electro-Mechanics Details

10.4.2 Samsung Electro-Mechanics Major Business

10.4.3 Samsung Electro-Mechanics X7R Capacitor Product and Services

10.4.4 Samsung Electro-Mechanics X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 Samsung Electro-Mechanics Recent Developments/Updates

10.4.6 Samsung Electro-Mechanics Competitive Strengths & Weaknesses

10.5 YAGEO

10.5.1 YAGEO Details

10.5.2 YAGEO Major Business

- 10.5.3 YAGEO X7R Capacitor Product and Services
- 10.5.4 YAGEO X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.5.5 YAGEO Recent Developments/Updates
- 10.5.6 YAGEO Competitive Strengths & Weaknesses
- 10.6 Vishay
 - 10.6.1 Vishay Details
 - 10.6.2 Vishay Major Business
 - 10.6.3 Vishay X7R Capacitor Product and Services
 - 10.6.4 Vishay X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Vishay Recent Developments/Updates
 - 10.6.6 Vishay Competitive Strengths & Weaknesses
- 10.7 Taiyo Yuden
 - 10.7.1 Taiyo Yuden Details
 - 10.7.2 Taiyo Yuden Major Business
 - 10.7.3 Taiyo Yuden X7R Capacitor Product and Services
 - 10.7.4 Taiyo Yuden X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Taiyo Yuden Recent Developments/Updates
 - 10.7.6 Taiyo Yuden Competitive Strengths & Weaknesses
- 10.8 Walsin
 - 10.8.1 Walsin Details
 - 10.8.2 Walsin Major Business
 - 10.8.3 Walsin X7R Capacitor Product and Services
 - 10.8.4 Walsin X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 Walsin Recent Developments/Updates
 - 10.8.6 Walsin Competitive Strengths & Weaknesses
- 10.9 Darfon
 - 10.9.1 Darfon Details
 - 10.9.2 Darfon Major Business
 - 10.9.3 Darfon X7R Capacitor Product and Services
 - 10.9.4 Darfon X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.9.5 Darfon Recent Developments/Updates
 - 10.9.6 Darfon Competitive Strengths & Weaknesses
- 10.10 Holy Stone
 - 10.10.1 Holy Stone Details

- 10.10.2 Holy Stone Major Business
- 10.10.3 Holy Stone X7R Capacitor Product and Services
- 10.10.4 Holy Stone X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.10.5 Holy Stone Recent Developments/Updates
- 10.10.6 Holy Stone Competitive Strengths & Weaknesses
- 10.11 Chaozhou Three-Circle
- 10.11.1 Chaozhou Three-Circle Details
- 10.11.2 Chaozhou Three-Circle Major Business
- 10.11.3 Chaozhou Three-Circle X7R Capacitor Product and Services
- 10.11.4 Chaozhou Three-Circle X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.11.5 Chaozhou Three-Circle Recent Developments/Updates
- 10.11.6 Chaozhou Three-Circle Competitive Strengths & Weaknesses
- 10.12 Fenghua Advanced Technology
- 10.12.1 Fenghua Advanced Technology Details
- 10.12.2 Fenghua Advanced Technology Major Business
- 10.12.3 Fenghua Advanced Technology X7R Capacitor Product and Services
- 10.12.4 Fenghua Advanced Technology X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.12.5 Fenghua Advanced Technology Recent Developments/Updates
- 10.12.6 Fenghua Advanced Technology Competitive Strengths & Weaknesses
- 10.13 Torch Electronics
- 10.13.1 Torch Electronics Details
- 10.13.2 Torch Electronics Major Business
- 10.13.3 Torch Electronics X7R Capacitor Product and Services
- 10.13.4 Torch Electronics X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.13.5 Torch Electronics Recent Developments/Updates
- 10.13.6 Torch Electronics Competitive Strengths & Weaknesses
- 10.14 EYANG
- 10.14.1 EYANG Details
- 10.14.2 EYANG Major Business
- 10.14.3 EYANG X7R Capacitor Product and Services
- 10.14.4 EYANG X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.14.5 EYANG Recent Developments/Updates
- 10.14.6 EYANG Competitive Strengths & Weaknesses
- 10.15 MARUWA

- 10.15.1 MARUWA Details
- 10.15.2 MARUWA Major Business
- 10.15.3 MARUWA X7R Capacitor Product and Services
- 10.15.4 MARUWA X7R Capacitor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.15.5 MARUWA Recent Developments/Updates
- 10.15.6 MARUWA Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 X7R Capacitor Industry Chain
- 11.2 X7R Capacitor Upstream Analysis
 - 11.2.1 X7R Capacitor Core Raw Materials
 - 11.2.2 Main Manufacturers of X7R Capacitor Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 X7R Capacitor Production Mode
- 11.6 X7R Capacitor Procurement Model
- 11.7 X7R Capacitor Industry Sales Model and Sales Channels
 - 11.7.1 X7R Capacitor Sales Model
 - 11.7.2 X7R Capacitor Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World X7R Capacitor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World X7R Capacitor Production Value by Region (2021-2026) & (USD Million)

Table 3. World X7R Capacitor Production Value by Region (2027-2032) & (USD Million)

Table 4. World X7R Capacitor Production Value Market Share by Region (2021-2026)

Table 5. World X7R Capacitor Production Value Market Share by Region (2027-2032)

Table 6. World X7R Capacitor Production by Region (2021-2026) & (K Units)

Table 7. World X7R Capacitor Production by Region (2027-2032) & (K Units)

Table 8. World X7R Capacitor Production Market Share by Region (2021-2026)

Table 9. World X7R Capacitor Production Market Share by Region (2027-2032)

Table 10. World X7R Capacitor Average Price by Region (2021-2026) & (USD/Unit)

Table 11. World X7R Capacitor Average Price by Region (2027-2032) & (USD/Unit)

Table 12. X7R Capacitor Major Market Trends

Table 13. World X7R Capacitor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World X7R Capacitor Consumption by Region (2021-2026) & (K Units)

Table 15. World X7R Capacitor Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World X7R Capacitor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key X7R Capacitor Producers in 2025

Table 18. World X7R Capacitor Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key X7R Capacitor Producers in 2025

Table 20. World X7R Capacitor Average Price by Manufacturer (2021-2026) & (USD/Unit)

Table 21. Global X7R Capacitor Company Evaluation Quadrant

Table 22. World X7R Capacitor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and X7R Capacitor Production Site of Key Manufacturer

Table 24. X7R Capacitor Market: Company Product Type Footprint

Table 25. X7R Capacitor Market: Company Product Application Footprint

Table 26. X7R Capacitor Competitive Factors

Table 27. X7R Capacitor New Entrant and Capacity Expansion Plans

Table 28. X7R Capacitor Mergers & Acquisitions Activity

Table 29. United States VS China X7R Capacitor Production Value Comparison, (2021

& 2025 & 2032) & (USD Million)

Table 30. United States VS China X7R Capacitor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China X7R Capacitor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based X7R Capacitor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers X7R Capacitor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers X7R Capacitor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers X7R Capacitor Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers X7R Capacitor Production Market Share (2021-2026)

Table 37. China Based X7R Capacitor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers X7R Capacitor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers X7R Capacitor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers X7R Capacitor Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers X7R Capacitor Production Market Share (2021-2026)

Table 42. Rest of World Based X7R Capacitor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers X7R Capacitor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers X7R Capacitor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers X7R Capacitor Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers X7R Capacitor Production Market Share (2021-2026)

Table 47. World X7R Capacitor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World X7R Capacitor Production by Type (2021-2026) & (K Units)

Table 49. World X7R Capacitor Production by Type (2027-2032) & (K Units)

Table 50. World X7R Capacitor Production Value by Type (2021-2026) & (USD Million)

Table 51. World X7R Capacitor Production Value by Type (2027-2032) & (USD Million)

Table 52. World X7R Capacitor Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World X7R Capacitor Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World X7R Capacitor Production Value by Internal Electrode System, (USD Million), 2021 & 2025 & 2032

Table 55. World X7R Capacitor Production by Internal Electrode System (2021-2026) & (K Units)

Table 56. World X7R Capacitor Production by Internal Electrode System (2027-2032) & (K Units)

Table 57. World X7R Capacitor Production Value by Internal Electrode System (2021-2026) & (USD Million)

Table 58. World X7R Capacitor Production Value by Internal Electrode System (2027-2032) & (USD Million)

Table 59. World X7R Capacitor Average Price by Internal Electrode System (2021-2026) & (USD/Unit)

Table 60. World X7R Capacitor Average Price by Internal Electrode System (2027-2032) & (USD/Unit)

Table 61. World X7R Capacitor Production Value by Mounting and Lead Configuration, (USD Million), 2021 & 2025 & 2032

Table 62. World X7R Capacitor Production by Mounting and Lead Configuration (2021-2026) & (K Units)

Table 63. World X7R Capacitor Production by Mounting and Lead Configuration (2027-2032) & (K Units)

Table 64. World X7R Capacitor Production Value by Mounting and Lead Configuration (2021-2026) & (USD Million)

Table 65. World X7R Capacitor Production Value by Mounting and Lead Configuration (2027-2032) & (USD Million)

Table 66. World X7R Capacitor Average Price by Mounting and Lead Configuration (2021-2026) & (USD/Unit)

Table 67. World X7R Capacitor Average Price by Mounting and Lead Configuration (2027-2032) & (USD/Unit)

Table 68. World X7R Capacitor Production Value by Rated Voltage Class, (USD Million), 2021 & 2025 & 2032

Table 69. World X7R Capacitor Production by Rated Voltage Class (2021-2026) & (K Units)

Table 70. World X7R Capacitor Production by Rated Voltage Class (2027-2032) & (K Units)

Table 71. World X7R Capacitor Production Value by Rated Voltage Class (2021-2026)

& (USD Million)

Table 72. World X7R Capacitor Production Value by Rated Voltage Class (2027-2032)

& (USD Million)

Table 73. World X7R Capacitor Average Price by Rated Voltage Class (2021-2026) & (USD/Unit)

Table 74. World X7R Capacitor Average Price by Rated Voltage Class (2027-2032) & (USD/Unit)

Table 75. World X7R Capacitor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World X7R Capacitor Production by Application (2021-2026) & (K Units)

Table 77. World X7R Capacitor Production by Application (2027-2032) & (K Units)

Table 78. World X7R Capacitor Production Value by Application (2021-2026) & (USD Million)

Table 79. World X7R Capacitor Production Value by Application (2027-2032) & (USD Million)

Table 80. World X7R Capacitor Average Price by Application (2021-2026) & (USD/Unit)

Table 81. World X7R Capacitor Average Price by Application (2027-2032) & (USD/Unit)

Table 82. TDK Basic Information, Manufacturing Base and Competitors

Table 83. TDK Major Business

Table 84. TDK X7R Capacitor Product and Services

Table 85. TDK X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. TDK Recent Developments/Updates

Table 87. TDK Competitive Strengths & Weaknesses

Table 88. KYOCERA AVX Basic Information, Manufacturing Base and Competitors

Table 89. KYOCERA AVX Major Business

Table 90. KYOCERA AVX X7R Capacitor Product and Services

Table 91. KYOCERA AVX X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. KYOCERA AVX Recent Developments/Updates

Table 93. KYOCERA AVX Competitive Strengths & Weaknesses

Table 94. Murata Basic Information, Manufacturing Base and Competitors

Table 95. Murata Major Business

Table 96. Murata X7R Capacitor Product and Services

Table 97. Murata X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Murata Recent Developments/Updates

Table 99. Murata Competitive Strengths & Weaknesses

Table 100. Samsung Electro-Mechanics Basic Information, Manufacturing Base and

Competitors

Table 101. Samsung Electro-Mechanics Major Business

Table 102. Samsung Electro-Mechanics X7R Capacitor Product and Services

Table 103. Samsung Electro-Mechanics X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Samsung Electro-Mechanics Recent Developments/Updates

Table 105. Samsung Electro-Mechanics Competitive Strengths & Weaknesses

Table 106. YAGEO Basic Information, Manufacturing Base and Competitors

Table 107. YAGEO Major Business

Table 108. YAGEO X7R Capacitor Product and Services

Table 109. YAGEO X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. YAGEO Recent Developments/Updates

Table 111. YAGEO Competitive Strengths & Weaknesses

Table 112. Vishay Basic Information, Manufacturing Base and Competitors

Table 113. Vishay Major Business

Table 114. Vishay X7R Capacitor Product and Services

Table 115. Vishay X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Vishay Recent Developments/Updates

Table 117. Vishay Competitive Strengths & Weaknesses

Table 118. Taiyo Yuden Basic Information, Manufacturing Base and Competitors

Table 119. Taiyo Yuden Major Business

Table 120. Taiyo Yuden X7R Capacitor Product and Services

Table 121. Taiyo Yuden X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Taiyo Yuden Recent Developments/Updates

Table 123. Taiyo Yuden Competitive Strengths & Weaknesses

Table 124. Walsin Basic Information, Manufacturing Base and Competitors

Table 125. Walsin Major Business

Table 126. Walsin X7R Capacitor Product and Services

Table 127. Walsin X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Walsin Recent Developments/Updates

Table 129. Walsin Competitive Strengths & Weaknesses

Table 130. Darfon Basic Information, Manufacturing Base and Competitors

Table 131. Darfon Major Business

Table 132. Darfon X7R Capacitor Product and Services

Table 133. Darfon X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Darfon Recent Developments/Updates

Table 135. Darfon Competitive Strengths & Weaknesses

Table 136. Holy Stone Basic Information, Manufacturing Base and Competitors

Table 137. Holy Stone Major Business

Table 138. Holy Stone X7R Capacitor Product and Services

Table 139. Holy Stone X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. Holy Stone Recent Developments/Updates

Table 141. Holy Stone Competitive Strengths & Weaknesses

Table 142. Chaozhou Three-Circle Basic Information, Manufacturing Base and Competitors

Table 143. Chaozhou Three-Circle Major Business

Table 144. Chaozhou Three-Circle X7R Capacitor Product and Services

Table 145. Chaozhou Three-Circle X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 146. Chaozhou Three-Circle Recent Developments/Updates

Table 147. Chaozhou Three-Circle Competitive Strengths & Weaknesses

Table 148. Fenghua Advanced Technology Basic Information, Manufacturing Base and Competitors

Table 149. Fenghua Advanced Technology Major Business

Table 150. Fenghua Advanced Technology X7R Capacitor Product and Services

Table 151. Fenghua Advanced Technology X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. Fenghua Advanced Technology Recent Developments/Updates

Table 153. Fenghua Advanced Technology Competitive Strengths & Weaknesses

Table 154. Torch Electronics Basic Information, Manufacturing Base and Competitors

Table 155. Torch Electronics Major Business

Table 156. Torch Electronics X7R Capacitor Product and Services

Table 157. Torch Electronics X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. Torch Electronics Recent Developments/Updates

Table 159. Torch Electronics Competitive Strengths & Weaknesses

Table 160. EYANG Basic Information, Manufacturing Base and Competitors

Table 161. EYANG Major Business

Table 162. EYANG X7R Capacitor Product and Services

Table 163. EYANG X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. EYANG Recent Developments/Updates

Table 165. EYANG Competitive Strengths & Weaknesses

Table 166. MARUWA Basic Information, Manufacturing Base and Competitors

Table 167. MARUWA Major Business

Table 168. MARUWA X7R Capacitor Product and Services

Table 169. MARUWA X7R Capacitor Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 170. MARUWA Recent Developments/Updates

Table 171. MARUWA Competitive Strengths & Weaknesses

Table 172. Global Key Players of X7R Capacitor Upstream (Raw Materials)

Table 173. Global X7R Capacitor Typical Customers

Table 174. X7R Capacitor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. X7R Capacitor Picture

Figure 2. World X7R Capacitor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World X7R Capacitor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World X7R Capacitor Production (2021-2032) & (K Units)

Figure 5. World X7R Capacitor Average Price (2021-2032) & (USD/Unit)

Figure 6. World X7R Capacitor Production Value Market Share by Region (2021-2032)

Figure 7. World X7R Capacitor Production Market Share by Region (2021-2032)

Figure 8. North America X7R Capacitor Production (2021-2032) & (K Units)

Figure 9. Europe X7R Capacitor Production (2021-2032) & (K Units)

Figure 10. Japan X7R Capacitor Production (2021-2032) & (K Units)

Figure 11. Thailand X7R Capacitor Production (2021-2032) & (K Units)

Figure 12. South Korea X7R Capacitor Production (2021-2032) & (K Units)

Figure 13. China X7R Capacitor Production (2021-2032) & (K Units)

Figure 14. X7R Capacitor Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World X7R Capacitor Consumption (2021-2032) & (K Units)

Figure 17. World X7R Capacitor Consumption Market Share by Region (2021-2032)

Figure 18. United States X7R Capacitor Consumption (2021-2032) & (K Units)

Figure 19. China X7R Capacitor Consumption (2021-2032) & (K Units)

Figure 20. Europe X7R Capacitor Consumption (2021-2032) & (K Units)

Figure 21. Japan X7R Capacitor Consumption (2021-2032) & (K Units)

Figure 22. South Korea X7R Capacitor Consumption (2021-2032) & (K Units)

Figure 23. ASEAN X7R Capacitor Consumption (2021-2032) & (K Units)

Figure 24. India X7R Capacitor Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of X7R Capacitor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for X7R Capacitor Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for X7R Capacitor Markets in 2025

Figure 28. United States VS China: X7R Capacitor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: X7R Capacitor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: X7R Capacitor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers X7R Capacitor Production Market Share 2025

Figure 32. China Based Manufacturers X7R Capacitor Production Market Share 2025

Figure 33. Rest of World Based Manufacturers X7R Capacitor Production Market Share 2025

Figure 34. World X7R Capacitor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World X7R Capacitor Production Value Market Share by Type in 2025

Figure 36. Ceramic Capacitor

Figure 37. Polymer Capacitor

Figure 38. World X7R Capacitor Production Market Share by Type (2021-2032)

Figure 39. World X7R Capacitor Production Value Market Share by Type (2021-2032)

Figure 40. World X7R Capacitor Average Price by Type (2021-2032) & (USD/Unit)

Figure 41. World X7R Capacitor Production Value by Internal Electrode System, (USD Million), 2021 & 2025 & 2032

Figure 42. World X7R Capacitor Production Value Market Share by Internal Electrode System in 2025

Figure 43. Base Metal Electrode (BME) X7R Capacitor

Figure 44. Precious Metal Electrode (PME) X7R Capacitor

Figure 45. World X7R Capacitor Production Market Share by Internal Electrode System (2021-2032)

Figure 46. World X7R Capacitor Production Value Market Share by Internal Electrode System (2021-2032)

Figure 47. World X7R Capacitor Average Price by Internal Electrode System (2021-2032) & (USD/Unit)

Figure 48. World X7R Capacitor Production Value by Mounting and Lead Configuration, (USD Million), 2021 & 2025 & 2032

Figure 49. World X7R Capacitor Production Value Market Share by Mounting and Lead Configuration in 2025

Figure 50. Surface-Mount Chip X7R Capacitor

Figure 51. Radial Leaded X7R Capacitor

Figure 52. Axial Leaded X7R Capacitor

Figure 53. Stacked Ceramic X7R Capacitor

Figure 54. World X7R Capacitor Production Market Share by Mounting and Lead Configuration (2021-2032)

Figure 55. World X7R Capacitor Production Value Market Share by Mounting and Lead Configuration (2021-2032)

Figure 56. World X7R Capacitor Average Price by Mounting and Lead Configuration (2021-2032) & (USD/Unit)

Figure 57. World X7R Capacitor Production Value by Rated Voltage Class, (USD Million), 2021 & 2025 & 2032

Figure 58. World X7R Capacitor Production Value Market Share by Rated Voltage Class in 2025

Figure 59. Low-Voltage X7R Capacitor (?50 VDC)

Figure 60. Medium-Voltage X7R Capacitor (51?250 VDC)

Figure 61. High-Voltage X7R Capacitor (251?1000 VDC)

Figure 62. Ultra-High-Voltage X7R Capacitor (>1000 VDC)

Figure 63. World X7R Capacitor Production Market Share by Rated Voltage Class (2021-2032)

Figure 64. World X7R Capacitor Production Value Market Share by Rated Voltage Class (2021-2032)

Figure 65. World X7R Capacitor Average Price by Rated Voltage Class (2021-2032) & (USD/Unit)

Figure 66. World X7R Capacitor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 67. World X7R Capacitor Production Value Market Share by Application in 2025

Figure 68. Electronics

Figure 69. Automotive

Figure 70. Aerospace

Figure 71. World X7R Capacitor Production Market Share by Application (2021-2032)

Figure 72. World X7R Capacitor Production Value Market Share by Application (2021-2032)

Figure 73. World X7R Capacitor Average Price by Application (2021-2032) & (USD/Unit)

Figure 74. X7R Capacitor Industry Chain

Figure 75. X7R Capacitor Procurement Model

Figure 76. X7R Capacitor Sales Model

Figure 77. X7R Capacitor Sales Channels, Direct Sales, and Distribution

Figure 78. Methodology

Figure 79. Research Process and Data Source

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