

Global MLCC for Humanoid Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global MLCC for Humanoid Robot market size was valued at US\$ 1.54 million in 2025 and is forecast to a readjusted size of US\$ 100 million by 2032 with a CAGR of 73.2% during review period.

In 2025, global MLCC for Humanoid Robot production reached approximately 50 million units with an average price of USD \$0.03 per unit. In market-research terms, this product is an application-defined pocket within high-reliability multilayer ceramic chip capacitors rather than a new capacitor chemistry. Demand is created by dense humanoid robot electronics where compute boards, servo-drive boards, power conversion circuits, sensors and tactile modules need compact decoupling, filtering and transient suppression components that can tolerate board flex, vibration, thermal cycling and current spikes. Typical forms include soft-termination MLCCs, automotive-grade X7R or X8R parts, low-ESR high-capacitance MLCCs and small-size C0G signal capacitors. The product sits in the passive-component layer between ceramic powders and robot electronic assemblies. It is narrower than the general MLCC market and should not include distributors, robot OEMs, servo-drive manufacturers or non-MLCC capacitors. Its research value comes from linking humanoid robot commercialization with a measurable pull-through effect on premium MLCC mixes.

MLCC for Humanoid Robot should be treated as a narrow demand pocket inside high-reliability MLCCs. The relevant purchasing logic is not that robot makers buy a unique capacitor class, but that humanoid robot electronics shift part of their capacitor mix toward soft-termination, automotive-grade, low-ESR, high-capacitance and compact-package MLCCs. This makes the product suitable for independent research only when the boundary is tied to humanoid robot boards and modules, not to the full MLCC

market. The practical market unit is the individual chip capacitor, while demand is driven by board count, joint count, sensor density and the level of integration in AI compute modules. 2) Industry development is still early but structurally favorable. Public robotics information indicates that humanoid robots are moving from demonstrations and research procurement toward pilot production, especially in China, while service robots and industrial automation continue to create broader acceptance of robots in commercial settings. For MLCC suppliers, this does not create a new supply chain from scratch; it increases exposure to premium reliability series already developed for automotive electronics, AI servers, industrial controls and power electronics. As robot volumes rise, the capacitor value per robot may decline because of scale purchasing and design standardization, but piece consumption should expand with higher electronic density. 3) The present supply side is led by established Japanese, Korean, Taiwanese, Chinese and U.S. MLCC manufacturers. Murata, TDK, Samsung Electro-Mechanics, Taiyo Yuden, Kyocera AVX, Yageo, Walsin, Vishay, Knowles, Fenghua and Three-Circle are relevant because they already have source manufacturing capability and reliability-oriented MLCC families. Smaller qualified producers can participate in selected industrial and control-board sockets, but humanoid robot programs are likely to favor suppliers with stable quality systems, long-term availability, AEC-Q200 experience, and the ability to support both small-package decoupling parts and larger power-board capacitors. 4) Growth will be shaped by two opposing forces. Robot shipments, actuator counts and edge-AI computing requirements support rapid volume growth from a small base. At the same time, MLCCs are highly standardized, price competition is intense, and many robot designs will use catalog automotive or industrial parts rather than customized capacitors. The strongest pull-through should appear in soft-termination anti-crack parts for mechanically stressed boards, high-temperature or high-voltage MLCCs for power stages, and low-ESR capacitors around processors and motor controllers. 5) The product's market position is best described as a premium mix upgrade within a mature passive-component industry. It is not a bottleneck component in the same way as actuators, reducers, batteries or AI chips, but it is an enabling reliability layer for dense electromechanical systems. Research should therefore focus on BOM intensity, qualification preference, supplier share shift and price erosion rather than only on humanoid robot shipment forecasts.

This report is a detailed and comprehensive analysis for global MLCC for Humanoid Robot market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Termination and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global MLCC for Humanoid Robot market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global MLCC for Humanoid Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global MLCC for Humanoid Robot market size and forecasts, by Termination and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global MLCC for Humanoid Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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

- To assess the growth potential for MLCC for Humanoid Robot

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

- To assess competitive factors affecting the marketplace

This report profiles key players in the global MLCC for Humanoid Robot market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Murata Manufacturing Co., Ltd., TDK Corporation, Samsung Electro-Mechanics Co., Ltd., Guangdong Fenghua Advanced Technology Holding Co., Ltd., Guangdong Viiyong Electronic Technology Co., Ltd., KYOCERA Corporation (KYOCERA AVX Components Corporation), YAGEO Corporation (KEMET Electronics Corporation), TAIYO YUDEN CO., LTD., Walsin Technology Corporation, Vishay Intertechnology, Inc., etc.

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

Market Segmentation

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

Market segment by Termination

- Standard Nickel Barrier Termination

- Soft Termination

- Metal Frame Termination

- Floating Electrode Design

- Others

Market segment by Dielectric and Reliability

- C0G Class I

- X7R Automotive Grade

- X7S High Temperature Grade

- X8R High Temperature Grade

- Others

Market segment by Chip Size

01005 to 0201

0402

0603

0805 and Larger

Market segment by Application

AI Compute Modules

Joint Servo Drive Boards

Vision and Sensor Modules

Tactile and IMU Electronics

Others

Major players covered

Murata Manufacturing Co., Ltd.

TDK Corporation

Samsung Electro-Mechanics Co., Ltd.

Guangdong Fenghua Advanced Technology Holding Co., Ltd.

Guangdong Viiyong Electronic Technology Co., Ltd.

KYOCERA Corporation (KYOCERA AVX Components Corporation)

YAGEO Corporation (KEMET Electronics Corporation)

TAIYO YUDEN CO., LTD.

Walsin Technology Corporation

Vishay Intertechnology, Inc.

Knowles Corporation (Knowles Precision Devices)

Holy Stone Enterprise Co., Ltd.

Chaozhou Three-Circle (Group) Co., Ltd.

Darfon Electronics Corp.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe MLCC for Humanoid Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MLCC for Humanoid Robot, with price, sales quantity, revenue, and global market share of MLCC for Humanoid Robot from 2021 to 2026.

Chapter 3, the MLCC for Humanoid Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by

landscape contrast.

Chapter 4, the MLCC for Humanoid Robot breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and MLCC for Humanoid Robot market forecast, by regions, by Termination, and by Application, with sales and revenue, from 2027 to 2032.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of MLCC for Humanoid Robot.

Chapter 14 and 15, to describe MLCC for Humanoid Robot sales channel, distributors, customers, research findings and conclusion.

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