

Global KNN Piezoceramic Components Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G5CC1022088FEN.html>

Date: January 2026

Pages: 75

Price: US\$ 3,480.00 (Single User License)

ID: G5CC1022088FEN

Abstracts

According to our (Global Info Research) latest study, the global KNN Piezoceramic Components market size was valued at US\$ 15.66 million in 2025 and is forecast to a readjusted size of US\$ 44.28 million by 2032 with a CAGR of 15.7% during review period.

In 2025, global KNN piezoceramic component production reached approximately 5,786.6 k units, with an average global market price of around US\$2.63 per units. KNN piezoceramic components refer to piezoelectric materials and devices made from Potassium Sodium Niobate (KNN), a lead-free piezoceramic compound with the general formula $(K_{1-x}Na_x)NbO_3$. These components are used in various applications where piezoelectric behavior such as converting mechanical energy into electrical energy or vice versa is needed.

KNN piezoceramic components, as an important class of lead-free piezoelectric materials, currently represent a relatively small yet clearly expanding segment of the global commercial market, and the industry remains in a transitional stage from laboratory research toward scaled manufacturing and broader application. The competitive landscape is highly concentrated, with a limited number of leading players dominating supply, while Europe stands as the largest consumption region and medical devices particularly ultrasonic imaging systems constitute the core downstream application. In terms of development trends, technology-driven performance improvement is the primary force, with element doping (such as lithium and antimony) and advanced sintering processes being widely adopted to enhance piezoelectric coefficients and temperature stability, thereby narrowing the performance gap with conventional lead-based PZT materials, alongside gradual expansion into industrial

sensing, underwater equipment, and defense-related applications. Growth opportunities are strongly supported by increasingly stringent global environmental regulations, including the EU's RoHS directive, which restricts the use of lead and creates clear substitution demand for lead-free solutions like KNN, further reinforced by long-term decarbonization objectives. Nevertheless, market development continues to be constrained by both technical and cost challenges, as KNN ceramics still lag behind mature PZT materials in overall performance while suffering from narrow sintering windows, high compositional sensitivity, low yield, and elevated manufacturing costs, all of which remain critical barriers to large-scale commercialization.

This report is a detailed and comprehensive analysis for global KNN Piezoceramic Components market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 KNN Piezoceramic Components market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global KNN Piezoceramic Components market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global KNN Piezoceramic Components market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global KNN Piezoceramic Components market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 KNN Piezoceramic Components

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 KNN Piezoceramic Components 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 PI Ceramic, CTS Corporation, Tsingfeng Technology, Niterra, etc.

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

Market Segmentation

KNN Piezoceramic Components market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

D33: 100-200 pC/N

D33: 200-300 pC/N

Market segment by Application

Medical

Industrial

Underwater and Defense

Major players covered

PI Ceramic

CTS Corporation

Tsingfeng Technology

Niterra

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 KNN Piezoceramic Components product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of KNN Piezoceramic Components, with price, sales quantity, revenue, and global market share of KNN Piezoceramic Components from 2021 to 2026.

Chapter 3, the KNN Piezoceramic Components competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the KNN Piezoceramic Components 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 Type and by Application, with sales market share and growth rate by Type, 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 KNN Piezoceramic Components market forecast, by regions, by Type, 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 KNN Piezoceramic Components.

Chapter 14 and 15, to describe KNN Piezoceramic Components sales channel, distributors, customers, research findings and conclusion.

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