

# Global Piezoelectric Ceramics Sales Market Report 2018

<https://marketpublishers.com/r/G9DE2DB641BEN.html>

Date: June 2018

Pages: 125

Price: US\$ 4,000.00 (Single User License)

ID: G9DE2DB641BEN

## Abstracts

This report studies the global Piezoelectric Ceramics market status and forecast, categorizes the global Piezoelectric Ceramics market size (value & volume) by key players, type, application, and region.

This report focuses on the top players in North America, Europe, China, Japan, Southeast Asia India and Other regions (Middle East & Africa, Central & South America).

The piezoelectric ceramic is a kind of functional ceramic materials which can create electricity when subjected to a mechanical stress. They will also work in reverse, generating a strain by the application of an electric field. In sensors they make it possible to convert forces, pressures and accelerations into electrical signals, and in sonic and ultrasonic transducers and actuators they convert electric voltages into vibrations or deformations.

### The Science

Piezoelectric ceramic materials are ionically bonded and consist of atoms with positive and negative charges, called ions. These ions occupy positions in specific repeating units (called unit cells). If a unit cell is non-centro symmetric, i.e. lacking a centre of symmetry, then the application of a stress produces a net movement of the positive and negative ions with respect to each other and results in an electric dipole or polarisation. The degree of polarisation is dependent upon the stress and whether tensile or compressive stresses are applied affects the charge produced. The dipoles, which are present due to the non-centro symmetric structure, form domains that are regions where neighbouring dipoles have the same alignment.

Initially the domains are randomly oriented (see figure on the left) and there is no overall polarisation of the ceramic and therefore it exhibits no piezoelectric effect. By applying heat and a strong DC field the domains are subjected to 'poling', causing the domains that are nearly aligned to the field to grow at the expense of those at differing

alignments. After cooling to room temperature and removing the DC field, the domains are 'locked' resulting in an overall alignment and the material is now piezoelectric.

The market for Lead Magnesium Niobate (PMN) held the largest share of the piezoelectric materials market owing to their high piezoelectric sensitivity and ability to acquire desired shapes and sizes. Currently, the most widely used piezoelectric ceramic material is PMN. It is used in a variety of applications, including medical, industrial, and automotive.

In the global piezoelectric devices market, APAC held the highest share in 2015. Globally, the largest amount of research on piezoelectric materials and devices is undertaken in Japan. Several experiments on microscale applications of piezoelectric technology have been carried out in Japan, including the usage of this technology in floors of train stations to generate electricity. Owing to this, the market in APAC is expected to grow at the highest rate in the coming years.

Global giant manufactures mainly distributed in Europe. The manufacturers in Japan have a long history and unshakable status in this field. Manufacturers such as MURATA and TDK have relative higher level of product's quality. As to British, MORGAN has become as a global leader. In Germany, CeramTec leads the technology development. Most of Chinese manufactures locate in Jiangsu, Guangdong and Zhejiang province.

The global Piezoelectric Ceramics market is valued at 7780 million US\$ in 2017 and will reach 9780 million US\$ by the end of 2025, growing at a CAGR of 2.9% during 2018-2025.

The major players covered in this report

MURATA

TDK

MORGAN

TAIYO YUDEN

KYOCERA

CeramTec

PI Ceramic

Exelis

Sparkler Ceramics

KEPO Electronics

APC International

TRS

Noliac

SensorTech

Meggitt Sensing

Johnson Matthey

Kinetic Ceramics

Konghong Corporation

Jiakang Electronics

Datong Electronic

Audiowell

Honghua Electronic

Risun Electronic

Yuhai Electronic Ceramic

PANT

Geographically, this report studies the key regions, focuses on product sales, value, market share and growth opportunity in these regions, covering

United States

Europe

China

Japan

Southeast Asia

India

We can also provide the customized separate regional or country-level reports, for the following regions:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Australia

Indonesia

Singapore

Rest of Asia-Pacific

Europe

Germany

France

UK

Italy

Spain

Russia

Rest of Europe

Central & South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Saudi Arabia

Turkey

Rest of Middle East & Africa

On the basis of product, this report displays the production, revenue, price, market share and growth rate of each type, primarily split into

### By Materials Types

Lead zinc titanates(PZT)

Lead titanate (PT)

Lead magnesium niobate (PMN)

Others

### By Shapes

Rings and discs

Cylinders

Rectangular plates

Monolithic multilayer actuators

Semispherical bodies

Standard tolerances

### By Materials Characteristic

Hard Materials

Soft Materials

Custom Materials.

On the basis on the end users/applications, this report focuses on the status and outlook for major applications/end users, sales volume, market share and growth rate for each application, including

Industrial & Manufacturing

Automotive

Information & Telecommunication

Medical Devices

Others

The study objectives of this report are:

To analyze and study the global Piezoelectric Ceramics sales, value, status (2013-2017) and forecast (2018-2025);

To analyze the top players in North America, Europe, China, Japan, Southeast Asia and India, to study the sales, value and market share of top players in these regions.

Focuses on the key Piezoelectric Ceramics players, to study the sales, value, market share and development plans in future.

Focuses on the global key manufacturers, to define, describe and analyze the market competition landscape, SWOT analysis.

To define, describe and forecast the market by type, application and region.

To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints and risks.

To identify significant trends and factors driving or inhibiting the market growth.

To analyze the opportunities in the market for stakeholders by identifying the high growth segments.

To strategically analyze each submarket with respect to individual growth trend and their contribution to the market

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market

To strategically profile the key players and comprehensively analyze their growth strategies.

In this study, the years considered to estimate the market size of Piezoelectric Ceramics are as follows:

History Year: 2013-2017

Base Year: 2017

Estimated Year: 2018

Forecast Year 2018 to 2025

For the data information by region, company, type and application, 2017 is considered as the base year. Whenever data information was unavailable for the base year, the prior year has been considered.

Key Stakeholders

Piezoelectric Ceramics Manufacturers

Piezoelectric Ceramics Distributors/Traders/Wholesalers

Piezoelectric Ceramics Subcomponent Manufacturers

Industry Association

Downstream Vendors

Available Customizations

With the given market data, QYResearch offers customizations according to the company's specific needs. The following customization options are available for the report:

Regional and country-level analysis of the Piezoelectric Ceramics market, by end-use.

Detailed analysis and profiles of additional market players.



## Contents

### Global Piezoelectric Ceramics Sales Market Report 2018

## **1 PIEZOELECTRIC CERAMICS MARKET OVERVIEW**

### 1.1 Product Overview and Scope of Piezoelectric Ceramics

### 1.2 Classification of Piezoelectric Ceramics by Product Category

#### 1.2.1 Global Piezoelectric Ceramics Market Size (Sales) Comparison by Type (2013-2025)

#### 1.2.2 Global Piezoelectric Ceramics Market Size (Sales) Market Share by Type (Product Category) in 2017

##### 1.2.3 Lead zinc titanates(PZT)

##### 1.2.4 Lead titanate (PT)

##### 1.2.5 Lead magnesium niobate (PMN)

##### 1.2.6 Others

### 1.3 Global Piezoelectric Ceramics Market by Application/End Users

#### 1.3.1 Global Piezoelectric Ceramics Sales (Volume) and Market Share Comparison by Application (2013-2025)

##### 1.3.1 Industrial & Manufacturing

##### 1.3.2 Automotive

##### 1.3.3 Information & Telecommunication

##### 1.3.4 Medical Devices

##### 1.3.5 Others

### 1.4 Global Piezoelectric Ceramics Market by Region

#### 1.4.1 Global Piezoelectric Ceramics Market Size (Value) Comparison by Region (2013-2025)

##### 1.4.2 United States Piezoelectric Ceramics Status and Prospect (2013-2025)

##### 1.4.3 Europe Piezoelectric Ceramics Status and Prospect (2013-2025)

##### 1.4.4 China Piezoelectric Ceramics Status and Prospect (2013-2025)

##### 1.4.5 Japan Piezoelectric Ceramics Status and Prospect (2013-2025)

##### 1.4.6 Southeast Asia Piezoelectric Ceramics Status and Prospect (2013-2025)

##### 1.4.7 India Piezoelectric Ceramics Status and Prospect (2013-2025)

### 1.5 Global Market Size (Value and Volume) of Piezoelectric Ceramics (2013-2025)

#### 1.5.1 Global Piezoelectric Ceramics Sales and Growth Rate (2013-2025)

#### 1.5.2 Global Piezoelectric Ceramics Revenue and Growth Rate (2013-2025)

## **2 GLOBAL PIEZOELECTRIC CERAMICS COMPETITION BY PLAYERS/SUPPLIERS, TYPE AND APPLICATION**

- 2.1 Global Piezoelectric Ceramics Market Competition by Players/Suppliers
  - 2.1.1 Global Piezoelectric Ceramics Sales and Market Share of Key Players/Suppliers (2013-2018)
  - 2.1.2 Global Piezoelectric Ceramics Revenue and Share by Players/Suppliers (2013-2018)
- 2.2 Global Piezoelectric Ceramics (Volume and Value) by Type
  - 2.2.1 Global Piezoelectric Ceramics Sales and Market Share by Type (2013-2018)
  - 2.2.2 Global Piezoelectric Ceramics Revenue and Market Share by Type (2013-2018)
- 2.3 Global Piezoelectric Ceramics (Volume and Value) by Region
  - 2.3.1 Global Piezoelectric Ceramics Sales and Market Share by Region (2013-2018)
  - 2.3.2 Global Piezoelectric Ceramics Revenue and Market Share by Region (2013-2018)
- 2.4 Global Piezoelectric Ceramics (Volume) by Application

### **3 UNITED STATES PIEZOELECTRIC CERAMICS (VOLUME, VALUE AND SALES PRICE)**

- 3.1 United States Piezoelectric Ceramics Sales and Value (2013-2018)
  - 3.1.1 United States Piezoelectric Ceramics Sales and Growth Rate (2013-2018)
  - 3.1.2 United States Piezoelectric Ceramics Revenue and Growth Rate (2013-2018)
  - 3.1.3 United States Piezoelectric Ceramics Sales Price Trend (2013-2018)
- 3.2 United States Piezoelectric Ceramics Sales Volume and Market Share by Players (2013-2018)
- 3.3 United States Piezoelectric Ceramics Sales Volume and Market Share by Type (2013-2018)
- 3.4 United States Piezoelectric Ceramics Sales Volume and Market Share by Application (2013-2018)

### **4 EUROPE PIEZOELECTRIC CERAMICS (VOLUME, VALUE AND SALES PRICE)**

- 4.1 Europe Piezoelectric Ceramics Sales and Value (2013-2018)
  - 4.1.1 Europe Piezoelectric Ceramics Sales and Growth Rate (2013-2018)
  - 4.1.2 Europe Piezoelectric Ceramics Revenue and Growth Rate (2013-2018)
  - 4.1.3 Europe Piezoelectric Ceramics Sales Price Trend (2013-2018)
- 4.2 Europe Piezoelectric Ceramics Sales Volume and Market Share by Players (2013-2018)
- 4.3 Europe Piezoelectric Ceramics Sales Volume and Market Share by Type (2013-2018)

4.4 Europe Piezoelectric Ceramics Sales Volume and Market Share by Application (2013-2018)

## **5 CHINA PIEZOELECTRIC CERAMICS (VOLUME, VALUE AND SALES PRICE)**

5.1 China Piezoelectric Ceramics Sales and Value (2013-2018)

5.1.1 China Piezoelectric Ceramics Sales and Growth Rate (2013-2018)

5.1.2 China Piezoelectric Ceramics Revenue and Growth Rate (2013-2018)

5.1.3 China Piezoelectric Ceramics Sales Price Trend (2013-2018)

5.2 China Piezoelectric Ceramics Sales Volume and Market Share by Players (2013-2018)

5.3 China Piezoelectric Ceramics Sales Volume and Market Share by Type (2013-2018)

5.4 China Piezoelectric Ceramics Sales Volume and Market Share by Application (2013-2018)

## **6 JAPAN PIEZOELECTRIC CERAMICS (VOLUME, VALUE AND SALES PRICE)**

6.1 Japan Piezoelectric Ceramics Sales and Value (2013-2018)

6.1.1 Japan Piezoelectric Ceramics Sales and Growth Rate (2013-2018)

6.1.2 Japan Piezoelectric Ceramics Revenue and Growth Rate (2013-2018)

6.1.3 Japan Piezoelectric Ceramics Sales Price Trend (2013-2018)

6.2 Japan Piezoelectric Ceramics Sales Volume and Market Share by Players (2013-2018)

6.3 Japan Piezoelectric Ceramics Sales Volume and Market Share by Type (2013-2018)

6.4 Japan Piezoelectric Ceramics Sales Volume and Market Share by Application (2013-2018)

## **7 SOUTHEAST ASIA PIEZOELECTRIC CERAMICS (VOLUME, VALUE AND SALES PRICE)**

7.1 Southeast Asia Piezoelectric Ceramics Sales and Value (2013-2018)

7.1.1 Southeast Asia Piezoelectric Ceramics Sales and Growth Rate (2013-2018)

7.1.2 Southeast Asia Piezoelectric Ceramics Revenue and Growth Rate (2013-2018)

7.1.3 Southeast Asia Piezoelectric Ceramics Sales Price Trend (2013-2018)

7.2 Southeast Asia Piezoelectric Ceramics Sales Volume and Market Share by Players (2013-2018)

7.3 Southeast Asia Piezoelectric Ceramics Sales Volume and Market Share by Type (2013-2018)

7.4 Southeast Asia Piezoelectric Ceramics Sales Volume and Market Share by Application (2013-2018)

## **8 INDIA PIEZOELECTRIC CERAMICS (VOLUME, VALUE AND SALES PRICE)**

8.1 India Piezoelectric Ceramics Sales and Value (2013-2018)

8.1.1 India Piezoelectric Ceramics Sales and Growth Rate (2013-2018)

8.1.2 India Piezoelectric Ceramics Revenue and Growth Rate (2013-2018)

8.1.3 India Piezoelectric Ceramics Sales Price Trend (2013-2018)

8.2 India Piezoelectric Ceramics Sales Volume and Market Share by Players (2013-2018)

8.3 India Piezoelectric Ceramics Sales Volume and Market Share by Type (2013-2018)

8.4 India Piezoelectric Ceramics Sales Volume and Market Share by Application (2013-2018)

## **9 GLOBAL PIEZOELECTRIC CERAMICS PLAYERS/SUPPLIERS PROFILES AND SALES DATA**

9.1 MURATA

9.1.1 Company Basic Information, Manufacturing Base and Competitors

9.1.2 Piezoelectric Ceramics Product Category, Application and Specification

9.1.2.1 Product A

9.1.2.2 Product B

9.1.3 MURATA Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin (2013-2018)

9.1.4 Main Business/Business Overview

9.2 TDK

9.2.1 Company Basic Information, Manufacturing Base and Competitors

9.2.2 Piezoelectric Ceramics Product Category, Application and Specification

9.2.2.1 Product A

9.2.2.2 Product B

9.2.3 TDK Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin (2013-2018)

9.2.4 Main Business/Business Overview

9.3 MORGAN

9.3.1 Company Basic Information, Manufacturing Base and Competitors

9.3.2 Piezoelectric Ceramics Product Category, Application and Specification

9.3.2.1 Product A

9.3.2.2 Product B

9.3.3 MORGAN Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin  
(2013-2018)

9.3.4 Main Business/Business Overview

9.4 TAIYO YUDEN

9.4.1 Company Basic Information, Manufacturing Base and Competitors

9.4.2 Piezoelectric Ceramics Product Category, Application and Specification

9.4.2.1 Product A

9.4.2.2 Product B

9.4.3 TAIYO YUDEN Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin  
(2013-2018)

9.4.4 Main Business/Business Overview

9.5 KYOCERA

9.5.1 Company Basic Information, Manufacturing Base and Competitors

9.5.2 Piezoelectric Ceramics Product Category, Application and Specification

9.5.2.1 Product A

9.5.2.2 Product B

9.5.3 KYOCERA Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin  
(2013-2018)

9.5.4 Main Business/Business Overview

9.6 CeramTec

9.6.1 Company Basic Information, Manufacturing Base and Competitors

9.6.2 Piezoelectric Ceramics Product Category, Application and Specification

9.6.2.1 Product A

9.6.2.2 Product B

9.6.3 CeramTec Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin  
(2013-2018)

9.6.4 Main Business/Business Overview

9.7 PI Ceramic

9.7.1 Company Basic Information, Manufacturing Base and Competitors

9.7.2 Piezoelectric Ceramics Product Category, Application and Specification

9.7.2.1 Product A

9.7.2.2 Product B

9.7.3 PI Ceramic Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin  
(2013-2018)

9.7.4 Main Business/Business Overview

9.8 Exelis

9.8.1 Company Basic Information, Manufacturing Base and Competitors

9.8.2 Piezoelectric Ceramics Product Category, Application and Specification

9.8.2.1 Product A

- 9.8.2.2 Product B
- 9.8.3 Exelis Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin (2013-2018)
- 9.8.4 Main Business/Business Overview
- 9.9 Sparkler Ceramics
  - 9.9.1 Company Basic Information, Manufacturing Base and Competitors
  - 9.9.2 Piezoelectric Ceramics Product Category, Application and Specification
    - 9.9.2.1 Product A
    - 9.9.2.2 Product B
  - 9.9.3 Sparkler Ceramics Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin (2013-2018)
  - 9.9.4 Main Business/Business Overview
- 9.10 KEPO Electronics
  - 9.10.1 Company Basic Information, Manufacturing Base and Competitors
  - 9.10.2 Piezoelectric Ceramics Product Category, Application and Specification
    - 9.10.2.1 Product A
    - 9.10.2.2 Product B
  - 9.10.3 KEPO Electronics Piezoelectric Ceramics Sales, Revenue, Price and Gross Margin (2013-2018)
  - 9.10.4 Main Business/Business Overview
- 9.11 APC International
- 9.12 TRS
- 9.13 Noliac
- 9.14 SensorTech
- 9.15 Meggitt Sensing
- 9.16 Johnson Matthey
- 9.17 Kinetic Ceramics
- 9.18 Konghong Corporation
- 9.19 Jiakang Electronics
- 9.20 Datong Electronic
- 9.21 Audiowell
- 9.22 Honghua Electronic
- 9.23 Risun Electronic
- 9.24 Yuhai Electronic Ceramic
- 9.25 PANT

## **10 PIEZOELECTRIC CERAMICS MAUFACTURING COST ANALYSIS**

- 10.1 Piezoelectric Ceramics Key Raw Materials Analysis

- 10.1.1 Key Raw Materials
- 10.1.2 Price Trend of Key Raw Materials
- 10.1.3 Key Suppliers of Raw Materials
- 10.1.4 Market Concentration Rate of Raw Materials
- 10.2 Proportion of Manufacturing Cost Structure
  - 10.2.1 Raw Materials
  - 10.2.2 Labor Cost
  - 10.2.3 Manufacturing Process Analysis of Piezoelectric Ceramics
- 10.3 Manufacturing Process Analysis of Piezoelectric Ceramics

## **11 INDUSTRIAL CHAIN, SOURCING STRATEGY AND DOWNSTREAM BUYERS**

- 11.1 Piezoelectric Ceramics Industrial Chain Analysis
- 11.2 Upstream Raw Materials Sourcing
- 11.3 Raw Materials Sources of Piezoelectric Ceramics Major Manufacturers in 2017
- 11.4 Downstream Buyers

## **12 MARKETING STRATEGY ANALYSIS, DISTRIBUTORS/TRADERS**

- 12.1 Marketing Channel
  - 12.1.1 Direct Marketing
  - 12.1.2 Indirect Marketing
  - 12.1.3 Marketing Channel Development Trend
- 12.2 Market Positioning
  - 12.2.1 Pricing Strategy
  - 12.2.2 Brand Strategy
  - 12.2.3 Target Client
- 12.3 Distributors/Traders List

## **13 MARKET EFFECT FACTORS ANALYSIS**

- 13.1 Technology Progress/Risk
  - 13.1.1 Substitutes Threat
  - 13.1.2 Technology Progress in Related Industry
- 13.2 Consumer Needs/Customer Preference Change
- 13.3 Economic/Political Environmental Change

## **14 GLOBAL PIEZOELECTRIC CERAMICS MARKET FORECAST (2018-2025)**

## 14.1 Global Piezoelectric Ceramics Sales Volume, Revenue and Price Forecast (2018-2025)

### 14.1.1 Global Piezoelectric Ceramics Sales Volume and Growth Rate Forecast (2018-2025)

#### 14.1.2 Global Piezoelectric Ceramics Revenue and Growth Rate Forecast (2018-2025)

#### 14.1.3 Global Piezoelectric Ceramics Price and Trend Forecast (2018-2025)

## 14.2 Global Piezoelectric Ceramics Sales Volume, Revenue and Growth Rate Forecast by Region (2018-2025)

### 14.2.1 Global Piezoelectric Ceramics Sales Volume and Growth Rate Forecast by Regions (2018-2025)

### 14.2.2 Global Piezoelectric Ceramics Revenue and Growth Rate Forecast by Regions (2018-2025)

### 14.2.3 United States Piezoelectric Ceramics Sales Volume, Revenue and Growth Rate Forecast (2018-2025)

### 14.2.4 Europe Piezoelectric Ceramics Sales Volume, Revenue and Growth Rate Forecast (2018-2025)

### 14.2.5 China Piezoelectric Ceramics Sales Volume, Revenue and Growth Rate Forecast (2018-2025)

### 14.2.6 Japan Piezoelectric Ceramics Sales Volume, Revenue and Growth Rate Forecast (2018-2025)

### 14.2.7 Southeast Asia Piezoelectric Ceramics Sales Volume, Revenue and Growth Rate Forecast (2018-2025)

### 14.2.8 India Piezoelectric Ceramics Sales Volume, Revenue and Growth Rate Forecast (2018-2025)

## 14.3 Global Piezoelectric Ceramics Sales Volume, Revenue and Price Forecast by Type (2018-2025)

### 14.3.1 Global Piezoelectric Ceramics Sales Forecast by Type (2018-2025)

### 14.3.2 Global Piezoelectric Ceramics Revenue Forecast by Type (2018-2025)

### 14.3.3 Global Piezoelectric Ceramics Price Forecast by Type (2018-2025)

## 14.4 Global Piezoelectric Ceramics Sales Volume Forecast by Application (2018-2025)

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

### 16.1 Methodology/Research Approach

#### 16.1.1 Research Programs/Design

#### 16.1.2 Market Size Estimation

#### 16.1.3 Market Breakdown and Data Triangulation



## 16.2 Data Source

### 16.2.1 Secondary Sources

### 16.2.2 Primary Sources

## 16.3 Disclaimer

The report requires updating with new data and is sent in 2-3 business days after order is placed.

## List Of Tables

### LIST OF TABLES AND FIGURES

Figure Product Picture of Piezoelectric Ceramics

Figure Global Piezoelectric Ceramics Sales Volume Comparison (M Pcs) by Type (2013-2025)

Figure Global Piezoelectric Ceramics Sales Volume Market Share by Type (Product Category) in 2017

Figure Lead zinc titanates(PZT) Product Picture

Figure Lead titanate (PT) Product Picture

Figure Lead magnesium niobate (PMN) Product Picture

Figure Others Product Picture

Figure Global Piezoelectric Ceramics Sales Comparison (M Pcs) by Application (2013-2025)

Figure Global Sales Market Share of Piezoelectric Ceramics by Application in 2017

Figure Industrial & Manufacturing Examples

Table Key Downstream Customer in Industrial & Manufacturing

Figure Automotive Examples

Table Key Downstream Customer in Automotive

Figure Information & Telecommunication Examples

Table Key Downstream Customer in Information & Telecommunication

Figure Medical Devices Examples

Table Key Downstream Customer in Medical Devices

Figure Others Examples

Table Key Downstream Customer in Others

Figure Global Piezoelectric Ceramics Market Size (Million USD) by Regions (2013-2025)

Figure United States Piezoelectric Ceramics Revenue (Million USD) and Growth Rate (2013-2025)

Figure Europe Piezoelectric Ceramics Revenue (Million USD) and Growth Rate (2013-2025)

Figure China Piezoelectric Ceramics Revenue (Million USD) and Growth Rate (2013-2025)

Figure Japan Piezoelectric Ceramics Revenue (Million USD) and Growth Rate (2013-2025)

Figure Southeast Asia Piezoelectric Ceramics Revenue (Million USD) and Growth Rate (2013-2025)

Figure India Piezoelectric Ceramics Revenue (Million USD) and Growth Rate

(2013-2025)

Figure Global Piezoelectric Ceramics Sales Volume (M Pcs) and Growth Rate

(2013-2025)

Figure Global Piezoelectric Ceramics Revenue (Million USD) and Growth Rate

(2013-2025)

Figure Global Market Major Players Piezoelectric Ceramics Sales Volume (M Pcs)

(2013-2018)

Table Global Piezoelectric Ceramics Sales (M Pcs) of Key Players/Suppliers

(2013-2018)

Table Global Piezoelectric Ceramics Sales Share by Players/Suppliers (2013-2018)

Figure 2017 Piezoelectric Ceramics Sales Share by Players/Suppliers

Figure 2017 Piezoelectric Ceramics Sales Share by Players/Suppliers

Figure Global Piezoelectric Ceramics Revenue (Million USD) by Players/Suppliers

(2013-2018)

Table Global Piezoelectric Ceramics Revenue (Million USD) by Players/Suppliers

(2013-2018)

Table Global Piezoelectric Ceramics Revenue Share by Players/Suppliers (2013-2018)

Table 2017 Global Piezoelectric Ceramics Revenue Share by Players

Table 2017 Global Piezoelectric Ceramics Revenue Share by Players

Table Global Piezoelectric Ceramics Sales (M Pcs) and Market Share by Type

(2013-2018)

Table Global Piezoelectric Ceramics Sales Share (M Pcs) by Type (2013-2018)

Figure Sales Market Share of Piezoelectric Ceramics by Type (2013-2018)

Figure Global Piezoelectric Ceramics Sales Growth Rate by Type (2013-2018)

Table Global Piezoelectric Ceramics Revenue (Million USD) and Market Share by Type

(2013-2018)

Table Global Piezoelectric Ceramics Revenue Share by Type (2013-2018)

Figure Revenue Market Share of Piezoelectric Ceramics by Type (2013-2018)

Figure Global Piezoelectric Ceramics Revenue Growth Rate by Type (2013-2018)

Table Global Piezoelectric Ceramics Sales Volume (M Pcs) and Market Share by

Region (2013-2018)

Table Global Piezoelectric Ceramics Sales Share by Region (2013-2018)

Figure Sales Market Share of Piezoelectric Ceramics by Region (2013-2018)

Figure Global Piezoelectric Ceramics Sales Growth Rate by Region in 2017

Table Global Piezoelectric Ceramics Revenue (Million USD) and Market Share by

Region (2013-2018)

Table Global Piezoelectric Ceramics Revenue Share (%) by Region (2013-2018)

Figure Revenue Market Share of Piezoelectric Ceramics by Region (2013-2018)

Figure Global Piezoelectric Ceramics Revenue Growth Rate by Region in 2017

Table Global Piezoelectric Ceramics Revenue (Million USD) and Market Share by Region (2013-2018)

Table Global Piezoelectric Ceramics Revenue Share (%) by Region (2013-2018)

Figure Revenue Market Share of Piezoelectric Ceramics by Region (2013-2018)

Figure Global Piezoelectric Ceramics Revenue Market Share by Region in 2017

Table Global Piezoelectric Ceramics Sales Volume (M Pcs) and Market Share by Application (2013-2018)

Table Global Piezoelectric Ceramics Sales Share (%) by Application (2013-2018)

Figure Sales Market Share of Piezoelectric Ceramics by Application (2013-2018)

Figure Global Piezoelectric Ceramics Sales Market Share by Application (2013-2018)

Figure United States Piezoelectric Ceramics Sales (M Pcs) and Growth Rate (2013-2018)

Figure United States Piezoelectric Ceramics Revenue (Million USD) and Growth Rate (2013-2018)

Figure United States Piezoelectric Ceramics Sales Price (USD/K Pcs) Trend (2013-2018)

Table United States Piezoelectric Ceramics Sales Volume (M Pcs) by Players (2013-2018)

Table United States Piezoelectric Ceramics Sales Volume Market Share by Players (2013-2018)

Figure United States Piezoelectric Ceramics Sales Volume Market Share by Players in 2017

Table United States Piezoelectric Ceramics Sales Volume (M Pcs) by Type (2013-2018)

Table United States Piezoelectric Ceramics Sales Volume Market Share by Type (2013-2018)

Figure United States Piezoelectric Ceramics Sales Volume Market Share by Type in 2017

Table United States Piezoelectric Ceramics Sales Volume (M Pcs) by Application (2013-2018)

Table United States Piezoelectric Ceramics Sales Volume Market Share by Application (2013-2018)

Figure United States Piezoelectric Ceramics Sales Volume Market Share by Application in 2017

Figure Europe Piezoelectric Ceramics Sales (M Pcs) and Growth Rate (2013-2018)

Figure Europe Piezoelectric Ceramics Revenue (Million USD) and Growth Rate (2013-2018)

Figure Europe Piezoelectric Ceramics Sales Price (USD/K Pcs) Trend (2013-2018)

Table Europe Piezoelectric Ceramics Sales Volume (M Pcs) by Players (2013-2018)

Table Europe Piezoelectric Ceramics Sales Volume Market Share by Players

(2013-2018)

Figure Europe Piezoelectric Ceramics Sales Volume Market Share by Players in 2017

Table Europe Piezoelectric Ceramics Sales Volume (M Pcs) by Type (2013-2018)

Table Europe Piezoelectric Ceramics Sales Volume Market Share by Type (2013-2018)

Figure Europe Piezoelectric Ceramics Sales Volume Market Share by Type in 2017

Table Europe Piezoelectric Ceramics Sales Volume (M Pcs) by Application (2013-2018)

Table Europe Piezoelectric Ceramics Sales Volume Market Share by Application

(2013-2018)

Figure Europe Piezoelectric Ceramics Sales Volume Market Share by Application in 2017

Figure China Piezoelectric Ceramics Sales (M Pcs) and Growth Rate (2013-2018)

Figure China Piezoelectric Ceramics Revenue (Million USD) and Growth Rate

(2013-2018)

Figure China Piezoelectric Ceramics Sales Price (USD/K Pcs) Trend (2013-2018)

Table China Piezoelectric Ceramics Sales Volume (M Pcs) by Players (2013-2018)

Table China Piezoelectric Ceramics Sales Volume Market Share by Players

(2013-2018)

Figure China Piezoelectric Ceramics Sales Volume Market Share by Players in 2017

Table China Piezoelectric Ceramics Sales Volume (M Pcs) by Type (2013-2018)

Table China Piezoelectric Ceramics Sales Volume Market Share by Type (2013-2018)

Figure China Piezoelectric Ceramics Sales Volume Market Share by Type in 2017

Table China Piezoelectric Ceramics Sales Volume (M Pcs) by Application (2013-2018)

Table China Piezoelectric Ceramics Sales Volume Market Share by Application

(2013-2018)

Figure China Piezoelectric Ceramics Sales Volume Market Share by Application in 2017

Figure Japan Piezoelectric Ceramics Sales (M Pcs) and Growth Rate (2013-2018)

Figure Japan Piezoelectric Ceramics Revenue (Million USD) and Growth Rate

(2013-2018)

Figure Japan Piezoelectric Ceramics Sales Price (USD/K Pcs) Trend (2013-2018)

Table Japan Piezoelectric Ceramics Sales Volume (M Pcs) by Players (2013-2018)

Table Japan Piezoelectric Ceramics Sales Volume Market Share by Players

(2013-2018)

Figure Japan Piezoelectric Ceramics Sales Volume Market Share by Players in 2017

Table Japan Piezoelectric Ceramics Sales Volume (M Pcs) by Type (2013-2018)

Table Japan Piezoelectric Ceramics Sales Volume Market Share by Type (2013-2018)

Figure Japan Piezoelectric Ceramics Sales Volume Market Share by Type in 2017

Table Japan Piezoelectric Ceramics Sales Volume (M Pcs) by Application (2013-2018)

Table Japan Piezoelectric Ceramics Sales Volume Market Share by Application

(2013-2018)

Figure Japan Piezoelectric Ceramics Sales Volume Market Share by Application in 2017

Figure Southeast Asia Piezoelectric Ceramics Sales (M Pcs) and Growth Rate (2013-2018)

Figure Southeast Asia Piezoelectric Ceramics Revenue (Million USD) and Growth Rate (2013-2018)

Figure Southeast Asia Piezoelectric Ceramics Sales Price (USD/K Pcs) Trend (2013-2018)

Table Southeast Asia Piezoelectric Ceramics Sales Volume (M Pcs) by Players (2013-2018)

Table Southeast Asia Piezoelectric Ceramics Sales Volume Market Share by Players (2013-2018)

Figure Southeast Asia Piezoelectric Ceramics Sales Volume Market Share by Players in 2017

Table Southeast Asia Piezoelectric Ceramics Sales Volume (M Pcs) by Type (2013-2018)

Table Southeast Asia Piezoelectric Ceramics Sales Volume Market Share by Type (2013-2018)

Figure Southeast Asia Piezoelectric Ceramics Sales Volume Market Share by Type in 2017

Table Southeast Asia Piezoelectric Ceramics Sales Volume (M Pcs) by Application (2013-2018)

Table Southeast Asia Piezoelectric Ceramics Sales Volume Market Share by Application (2013-2018)

Figure Southeast Asia Piezoelectric Ceramics Sales Volume Market Share by Application in 2017

Figure India Piezoelectric Ceramics Sales (M Pcs) and Growth Rate (2013-2018)

Figure India Piezoelectric Ceramics Revenue (Million USD) and Growth Rate (2013-2018)

Figure India Piezoelectric Ceramics Sales Price (USD/K Pcs) Trend (2013-2018)

Table India Piezoelectric Ceramics Sales Volume (M Pcs) by Players (2013-2018)

Table India Piezoelectric Ceramics Sales Volume Market Share by Players (2013-2018)

Figure India Piezoelectric Ceramics Sales Volume Market Share by Players in 2017

Table India Piezoelectric Ceramics Sales Volume (M Pcs) by Type (2013-2018)

Table India Piezoelectric Ceramics Sales Volume Market Share by Type (2013-2018)

Figure India Piezoelectric Ceramics Sales Volume Market Share by Type in 2017

Table India Piezoelectric Ceramics Sales Volume (M Pcs) by Application (2013-2018)

Table India Piezoelectric Ceramics Sales Volume Market Share by Application (2013-2018)

Figure India Piezoelectric Ceramics Sales Volume Market Share by Application in 2017

Table MURATA Basic Information List

Table MURATA Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure MURATA Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure MURATA Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure MURATA Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table TDK Basic Information List

Table TDK Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure TDK Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure TDK Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure TDK Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table MORGAN Basic Information List

Table MORGAN Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure MORGAN Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure MORGAN Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure MORGAN Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table TAIYO YUDEN Basic Information List

Table TAIYO YUDEN Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure TAIYO YUDEN Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure TAIYO YUDEN Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure TAIYO YUDEN Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table KYOCERA Basic Information List

Table KYOCERA Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure KYOCERA Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure KYOCERA Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure KYOCERA Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table CeramTec Basic Information List

Table CeramTec Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure CeramTec Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure CeramTec Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure CeramTec Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table PI Ceramic Basic Information List

Table PI Ceramic Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure PI Ceramic Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure PI Ceramic Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure PI Ceramic Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table Exelis Basic Information List

Table Exelis Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure Exelis Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure Exelis Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure Exelis Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table Sparkler Ceramics Basic Information List

Table Sparkler Ceramics Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure Sparkler Ceramics Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure Sparkler Ceramics Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure Sparkler Ceramics Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table KEPO Electronics Basic Information List

Table KEPO Electronics Piezoelectric Ceramics Sales (M Pcs), Revenue (Million USD), Price (USD/K Pcs) and Gross Margin (2013-2018)

Figure KEPO Electronics Piezoelectric Ceramics Sales Growth Rate (2013-2018)

Figure KEPO Electronics Piezoelectric Ceramics Sales Global Market Share (2013-2018)

Figure KEPO Electronics Piezoelectric Ceramics Revenue Global Market Share (2013-2018)

Table APC International Basic Information List

Table TRS Basic Information List

Table Noliac Basic Information List

Table SensorTech Basic Information List

Table Meggitt Sensing Basic Information List

Table Johnson Matthey Basic Information List

Table Kinetic Ceramics Basic Information List

Table Konghong Corporation Basic Information List

Table Jiakang Electronics Basic Information List

Table Datong Electronic Basic Information List

Table Audiowell Basic Information List

Table Honghua Electronic Basic Information List



Table Risun Electronic Basic Information List  
Table Yuhai Electronic Ceramic Basic Information List  
Table PANT Basic Information List  
Table Production Base and Market Concentration Rate of Raw Material  
Figure Price Trend of Key Raw Materials  
Table Key Suppliers of Raw Materials  
Figure Manufacturing Cost Structure of Piezoelectric Ceramics  
Figure Manufacturing Process Analysis of Piezoelectric Ceramics  
Figure Piezoelectric Ceramics Industrial Chain Analysis  
Table Raw Materials Sources of Piezoelectric Ceramics Major Players in 2017  
Table Major Buyers of Piezoelectric Ceramics  
Table Distributors/Traders List  
Figure Global Piezoelectric Ceramics Sales Volume (M Pcs) and Growth Rate Forecast (2018-2025)  
Figure Global Piezoelectric Ceramics Revenue (Million USD) and Growth Rate Forecast (2018-2025)  
Figure Global Piezoelectric Ceramics Price (USD/K Pcs) and Trend Forecast (2018-2025)  
Table Global Piezoelectric Ceramics Sales Volume (M Pcs) Forecast by Regions (2018-2025)  
Figure Global Piezoelectric Ceramics Sales Volume Market Share Forecast by Regions (2018-2025)  
Figure Global Piezoelectric Ceramics Sales Volume Market Share Forecast by Regions in 2025  
Table Global Piezoelectric Ceramics Revenue (Million USD) Forecast by Regions (2018-2025)  
Figure Global Piezoelectric Ceramics Revenue Market Share Forecast by Regions (2018-2025)  
Figure Global Piezoelectric Ceramics Revenue Market Share Forecast by Regions in 2025  
Figure United States Piezoelectric Ceramics Sales Volume (M Pcs) and Growth Rate Forecast (2018-2025)  
Figure United States Piezoelectric Ceramics Revenue (Million USD) and Growth Rate Forecast (2018-2025)  
Figure Europe Piezoelectric Ceramics Sales Volume (M Pcs) and Growth Rate Forecast (2018-2025)  
Figure Europe Piezoelectric Ceramics Revenue and Growth Rate Forecast (2018-2025)  
Figure China Piezoelectric Ceramics Sales Volume (M Pcs) and Growth Rate Forecast (2018-2025)

Figure China Piezoelectric Ceramics Revenue (Million USD) and Growth Rate Forecast (2018-2025)

Figure Japan Piezoelectric Ceramics Sales Volume (M Pcs) and Growth Rate Forecast (2018-2025)

Figure Japan Piezoelectric Ceramics Revenue (Million USD) and Growth Rate Forecast (2018-2025)

Figure Southeast Asia Piezoelectric Ceramics Sales Volume (M Pcs) and Growth Rate Forecast (2018-2025)

Figure Southeast Asia Piezoelectric Ceramics Revenue (Million USD) and Growth Rate Forecast (2018-2025)

Figure India Piezoelectric Ceramics Sales Volume (M Pcs) and Growth Rate Forecast (2018-2025)

Figure India Piezoelectric Ceramics Revenue (Million USD) and Growth Rate Forecast (2018-2025)

Table Global Piezoelectric Ceramics Sales (M Pcs) Forecast by Type (2018-2025)

Figure Global Piezoelectric Ceramics Sales Volume Market Share Forecast by Type (2018-2025)

Table Global Piezoelectric Ceramics Revenue (Million USD) Forecast by Type (2018-2025)

Figure Global Piezoelectric Ceramics Revenue Market Share Forecast by Type (2018-2025)

Table Global Piezoelectric Ceramics Price (USD/K Pcs) Forecast by Type (2018-2025)

Table Global Piezoelectric Ceramics Sales (M Pcs) Forecast by Application (2018-2025)

Figure Global Piezoelectric Ceramics Sales Market Share Forecast by Application (2018-2025)

Table Research Programs/Design for This Report

Figure Bottom-up and Top-down Approaches for This Report

Figure Data Triangulation

Table Key Data Information from Secondary Sources

Table Key Data Information from Primary Sources

## I would like to order

Product name: Global Piezoelectric Ceramics Sales Market Report 2018

Product link: <https://marketpublishers.com/r/G9DE2DB641BEN.html>

Price: US\$ 4,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G9DE2DB641BEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970