

Global Film Thickness Monitor Quartz Crystals Market Growth 2025-2031

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Abstracts

The global Film Thickness Monitor Quartz Crystals market size is predicted to grow from US\$ 34.5 million in 2025 to US\$ 49 million in 2031; it is expected to grow at a CAGR of 6.0% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A quartz monitor crystal is a crucial component of a quartz crystal based measurement and control system. The crystal enables precise and repeatable thin film depositions for a wide variety of high end uses. Quartz materials will develop an electrical charge like a battery, when pressed or squeezed. This property is called the piezoelectric effect ('pea-a-zo'). Conversely, if a battery were connected to a crystal, the crystal would change shape by stretching or compressing. If the battery were then turned on and off quickly in rapid succession, the crystal would vibrate. Depositing a thin coating on the crystal's surface will slow down the vibration of a quartz crystal. The crystal vibrates at approximately 6 million times per second (or 6 Megahertz), given a real time measurement of the thickness of coating being deposited on the crystal or any object in its vicinity. As the coating deposits on the crystal, the monitor counts the change in the number of vibrations per second and calculates the thickness of the coating from the data it receives.

A quartz monitor crystal is a crucial component of a quartz crystal based measurement and control system. The crystal enables precise and repeatable thin film depositions for a wide variety of high end uses.

According to the Segmentation of types, there are major three types of Quartz Monitor Crystals by Electrode Material, which are Gold Electrode Crystals, Alloy Electrode Crystals and Silver Electrode Crystals, the largest share is Gold Electrode Crystals, it hold a 61.84% of the global market share in 2024. Followed by the Alloy Electrode Crystals, with a market share of 36.04%, valued at US\$ 12.14 million in 2024.

There are mainly two type of Quartz Monitor Crystals segment by frequency, they are 5MHz Quartz Monitor Crystals and 6MHz Quartz Monitor Crystals. 5MHz Quartz Monitor Crystals are mainly used in semiconductor, LED, OLED industry, because 5MHz is the Standard of Japan, most of the downstream customers of semiconductor, LED, OLED industry are from Japan, Taiwan, China and South Korea, they purchased the Vacuum Coating Machines from the Japan manufacturers. And the probes of most of the Vacuum Coating Machines from Japan manufacturers are 5 MHz.

6MHz Quartz Monitor Crystals are mainly used in optics industry, because 6MHz is the Standard of USA, and the probes of most of the Vacuum Coating Machines from USA manufacturers are 6MHz.

From the application hand, Quartz Monitor Crystals mainly used in Optics, LED, OLED, Semiconductor, etc. In 2024, Optics sector hold the largest market share of 62.74%. Then followed by the LED application, which accounts for a share of 13.67%. The development of 5G network will drive the Quartz Monitor Crystals market, and the demand from semiconductor, OLED will also contribute to the Quartz Monitor Crystals market.

INFICON, Wanshi Electronics, Jiaying Jingkong Eletronic (JJK), Tieway Technology and OTWOCOM (OTC) are the key players in the global Quartz Monitor Crystals market. Top 5 players took up about 73% of the global market in 2024.

The global Quartz Crystal Monitor (QCM) market is witnessing steady growth, driven by advancements in thin-film technologies, semiconductor manufacturing, and biomedical applications.

Rising demand for miniaturized electronics (IoT, 5G, AI chips) fuels precision thin-film deposition monitoring.

Quartz Crystal Monitor (QCM) are critical for atomic-layer deposition (ALD) and plasma-enhanced chemical vapor deposition (PECVD) processes.

Growth in solar panels, anti-reflective coatings, and wear-resistant industrial coatings boosts Quartz Crystal Monitor (QCM) adoption.

The Quartz Crystal Monitor (QCM) market is evolving beyond traditional thin-film monitoring, with growth anchored in semiconductors, biomedicine, and sustainable tech. Innovations in frequency stability, IoT connectivity, and miniaturization will define the next phase of industry leadership.

LP Information, Inc. (LPI) ' newest research report, the “Film Thickness Monitor Quartz Crystals Industry Forecast” looks at past sales and reviews total world Film Thickness Monitor Quartz Crystals sales in 2024, providing a comprehensive analysis by region and market sector of projected Film Thickness Monitor Quartz Crystals sales for 2025 through 2031. With Film Thickness Monitor Quartz Crystals sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Film Thickness Monitor Quartz Crystals industry.

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Film Thickness Monitor Quartz Crystals market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Gold Electrode Crystals

Alloy Electrode Crystals

Silver Electrode Crystals

Segmentation by Application:

Optics

LED

OLED

Semiconductor

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

INFICON

Wanshi Electronics

Jiaxing Jingkong Eletronic (JJK)

Tieway Technology

OTWOCOM (OTC)

TAITIEN Electronics

Piezo Parts Co., Ltd.

Colnatec

Shalom Denshi Co., Ltd.

Gredmann Group

Hwitek Technology

Hangzhou Freqcontrol Electronic Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Film Thickness Monitor Quartz Crystals market?

What factors are driving Film Thickness Monitor Quartz Crystals market growth, globally and by region?

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

How do Film Thickness Monitor Quartz Crystals market opportunities vary by end market size?

How does Film Thickness Monitor Quartz Crystals break out by Type, by Application?

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