

Global Automotive Grade Crystal Oscillator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Grade Crystal Oscillator market size is expected to reach \$ 1232 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

Automotive grade crystal oscillators are high-precision frequency control components designed and manufactured specifically for automotive electronic systems. Like the ?heart? or ?metronome? of automotive electronic systems, it provides a unified clock reference for core modules such as the engine control unit (ECU), ADAS (Advanced Driver Assistance Systems), and vehicle communication. The application of automotive-grade crystal oscillators has permeated all core systems of modern automobiles, with dozens used per vehicle. Its main downstream applications include powertrain and control systems (ECU, motor controller, battery management system, etc.); advanced driver assistance systems (ADAS) and safety systems (millimeter-wave radar, LiDAR, airbag systems, anti-lock braking systems (ABS, etc.); smart cockpit and body electronics (in-vehicle infotainment systems, navigation systems, body control modules (BCM), tire pressure monitoring systems (TPMS, etc.); and vehicle-to-everything (V2X) and communication modules. With the deepening of automotive electrification and intelligentization, the demand for automotive-grade crystal oscillators continues to rise.

In 2025, global Automotive Grade Crystal Oscillator sales reached approximately 328 Million Units, with an average global market price of around 2.5 US\$/Units. Production capacity reached 500 Million Units, with a gross profit margin of approximately 31%.

In traditional gasoline vehicles, crystal oscillators mainly serve engine control, body control, instrument and entertainment systems. However, new energy vehicles and intelligent driving vehicles are adding electronic modules such as cameras, millimeter-

wave radar, domain controllers, battery management, inverters, smart cockpits, vehicle networking, and high-precision positioning, making stable clock sources an indispensable basic component for vehicle data acquisition, processing, and transmission. NDK points out that there are significant differences in the amount of crystal devices used in different vehicle segments, with the global average number per vehicle being around several dozen, and this number is expected to continue to grow. The widespread adoption of ADAS cameras, sensors, and safety control systems is a major driver of this demand expansion.

As automotive electronic architecture evolves from distributed ECUs to domain control and central computing, crystal oscillators need to simultaneously meet requirements for low jitter, fast startup, long-term frequency stability, and multi-system synchronization. This is especially true for automotive Ethernet, high-speed camera links, and automotive communication modules, where the demand for high-frequency, low-phase-noise products is even more pronounced. Murata's automotive crystals are already targeting automotive Ethernet and graphics processing ECUs, requiring frequency stability over a wide temperature range, reflecting the shift of automotive-grade crystal oscillators from general control devices to high-speed network foundational components. Product development will further focus on miniaturization, high-temperature performance, and active technology. Engine compartment, powertrain, and battery-related applications typically need to withstand harsher temperature, vibration, and shock environments, making AEC-Q200 and AEC-Q100 certifications increasingly important for entry into the automotive OEM supply chain.

This report studies the global Automotive Grade Crystal Oscillator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Grade Crystal Oscillator 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 Automotive Grade Crystal Oscillator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Grade Crystal Oscillator total production and demand, 2021-2032, (Million Units)

Global Automotive Grade Crystal Oscillator total production value, 2021-2032, (USD Million)

Global Automotive Grade Crystal Oscillator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Automotive Grade Crystal Oscillator consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive Grade Crystal Oscillator domestic production, consumption, key domestic manufacturers and share

Global Automotive Grade Crystal Oscillator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Automotive Grade Crystal Oscillator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive Grade Crystal Oscillator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive Grade Crystal Oscillator 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 Nihon Dempa Kogyo, Seiko Epson, Daishinku, TXC Corporation, KYOCERA AVX, Murata, Rakon, TAITIEN Electronics, Guangdong Faith long Crystal Technology, TKD Science and Technology, 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 Automotive Grade Crystal Oscillator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/K Units) 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 Automotive Grade Crystal Oscillator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Grade Crystal Oscillator Market, Segmentation by Type:

Passive Crystal Oscillator

Active Crystal Oscillator

Global Automotive Grade Crystal Oscillator Market, Segmentation by Function:

Standard Crystal Oscillator (XO)

Temperature-Compensated Crystal Oscillator (TCXO)

Voltage-Controlled Crystal Oscillator (VCXO)

Oven-Controlled Crystal Oscillator (OCXO)

Others

Global Automotive Grade Crystal Oscillator Market, Segmentation by Package Type:

Surface Mount

Through-Hole

Global Automotive Grade Crystal Oscillator Market, Segmentation by Application:

Commercial Vehicles

Passenger Vehicles

Companies Profiled:

Nihon Dempa Kogyo

Seiko Epson

Daishinku

TXC Corporation

KYOCERA AVX

Murata

Rakon

TAITIEN Electronics

Guangdong Faith long Crystal Technology

TKD Science and Technology

Shenzhen Crystal Technology Industrial

Shenzhen Yangxing Technology

Zhejiang East Crystal Electronic

Interquip Electronics

Chengdu Kingbri Frequency Technology

Crystal Bright Group

Hosonic Technology

Unigroup Guoxin Microelectronics

Anhui Jingsai Technology

Key Questions Answered:

1. How big is the global Automotive Grade Crystal Oscillator market?
2. What is the demand of the global Automotive Grade Crystal Oscillator market?
3. What is the year over year growth of the global Automotive Grade Crystal Oscillator market?
4. What is the production and production value of the global Automotive Grade Crystal Oscillator market?
5. Who are the key producers in the global Automotive Grade Crystal Oscillator market?
6. What are the growth factors driving the market demand?

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