Next Generation Crystal Oscillators Market: By End Use Verticals (Industrial, Automotive, Others), By Product Type (Temperature, Voltage, Frequency Controlled, Others), By Application, By Geography Forecast - (2015-2020)

Description: Crystal oscillator is an electronic circuit that is used to generate an electrical signal of precise frequency by utilizing the vibrating crystal's mechanical resonance made of piezoelectric material. There are different types of piezoelectric resonators, but typically, quartz is used in these types of oscillators. Hence, these oscillator electronic circuits are named as crystal oscillators. Majority are currently based on quartz crystals with silicon based MEMS oscillators being offered as an alternative to them. The crystal can be made by almost any object that is made of elastic material by using appropriate electrical transducers. As every object consists of natural resonant frequency of vibration, steel consists of high speed of sound and is also very elastic. Military and aerospace has been one of the oldest applications of crystal oscillators but accounted for less than 10% of the total market in 2014.

Crystal oscillators are mainly used in sensors, radars, navigation instruments in airplanes and ships, space and satellite applications, high reliability applications, location tracking, precision guided munitions, avionics, communication equipment, IFF (Identification Friend of Foe), electronic warfare equipment, and so on. Development of sophisticated missiles and weapons also drives the growth of crystal oscillators for military and aerospace applications. With rising demand in different platforms, the market is estimated to grow at a CAGR of 6.25% with total revenue of $2.41 billion by 2020.

This report gives an in-depth segmentation for military aerospace and defense market by product types like OCXO, FCXO, VCXO, MCKO, EMXO and so on. It also segmented by key geographic regions like Americas, Europe and Asia-pacific. Cost analysis, pricing analysis and the overall competitive landscape of key players are also analyzed in great detail in the report.

The study on the Crystal Oscillator market also covers extensive key trends related to the top market segments. The growth potential of these key segments along with the factors that will shape the growth of these market segments is analyzed in detail. The emerging markets along with the trends driving the growth of these markets are also presented in the report.

Competitive landscape for each of the product types is highlighted and market players are profiled with attributes of company overview, financial overview, business strategies, product portfolio and recent developments. The prominent players profiled in this report are Aker Technology, C-MAC, Conner Winfield, Harmony Electronics Corp, TXC Corp, Fox Electronics and others.

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