

Phase-locked Dielectric Resonator Oscillators Market - Global Outlook and Forecast 2022-2028

<https://marketpublishers.com/r/P8AE476AF126EN.html>

Date: January 2022

Pages: 74

Price: US\$ 3,250.00 (Single User License)

ID: P8AE476AF126EN

Abstracts

A phase-locked dielectric resonator oscillator (PLDRO) is a type of oscillator that is used in millimeter-wave communication systems, where phase noise performance is of utmost importance. As wireless communication systems are advancing, the system manufacturers and service providers are all trying to transmit more data within the limited frequency resources available. To do so, they are using more advanced modulation techniques such as 16PSK or 128QAM. Generally, the phase noise of the data modulation index and local oscillator are very closely related. Phase noise of the local oscillator must decrease as the modulation index increases.

The phase noise characteristics of a signal are determined by the oscillation method used to create the signal. Typically, a PLL-VCO (Phase Locked Loop-Voltage Controlled Oscillators) or a PLDRO (Phase Locked Dielectric Resonator Oscillator) is used. PLDRO's are most often used in high frequency microwave systems that require strict phase noise characteristics.

This report contains market size and forecasts of Phase-locked Dielectric Resonator Oscillators in global, including the following market information:

Global Phase-locked Dielectric Resonator Oscillators Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Phase-locked Dielectric Resonator Oscillators Market Sales, 2017-2022, 2023-2028, (K Units)

Global top five Phase-locked Dielectric Resonator Oscillators companies in 2021 (%)

The global Phase-locked Dielectric Resonator Oscillators market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Single Loop Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Phase-locked Dielectric Resonator Oscillators include AMG Microwave, AmpliTech, Exodus Dynamics, L3 Narda-MITEQ, Microwave Dynamics, Nanowave Technologies, Nexyn Corporation, Panda Microwave and Planar Monolithics Industries and etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Phase-locked Dielectric Resonator Oscillators manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Phase-locked Dielectric Resonator Oscillators Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Phase-locked Dielectric Resonator Oscillators Market Segment Percentages, by Type, 2021 (%)

Single Loop

Double Loop

Global Phase-locked Dielectric Resonator Oscillators Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Phase-locked Dielectric Resonator Oscillators Market Segment Percentages, by Application, 2021 (%)

DC to 6 GHz

DC to 10 GHz

DC to 18 GHz

Global Phase-locked Dielectric Resonator Oscillators Market, By Region and Country,
2017-2022, 2023-2028 (\$ Millions) & (K Units)

Global Phase-locked Dielectric Resonator Oscillators Market Segment Percentages, By
Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Phase-locked Dielectric Resonator Oscillators revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Phase-locked Dielectric Resonator Oscillators revenues share in global market, 2021 (%)

Key companies Phase-locked Dielectric Resonator Oscillators sales in global market, 2017-2022 (Estimated), (K Units)

Key companies Phase-locked Dielectric Resonator Oscillators sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

AMG Microwave

AmpliTech

Exodus Dynamics

L3 Narda-MITEQ

Microwave Dynamics

Nanowave Technologies

Nexyn Corporation

Panda Microwave

Planar Monolithics Industries

Polaris

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