

Oven-Controlled Crystal Oscillator (OCXO) Market by Type, Mounting Scheme (Surface Mount, Through-hole), Application (Consumer Electronics, Telecom & Networking, military & aerospace, Industrial, Automotive, Medical) and Region - Global Forecast to 2028

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Abstracts

The global OCXO market was valued at USD 464 million in 2023 and is projected to reach USD 528 million by 2028; it is expected to register a CAGR of 2.6% during the forecast period. The expanding telecommunications industry and widening application scope of OCXOs are among the factors driving the growth of the OCXO market. Key players operating in the OCXO market are Seiko Epson Corporation (Japan), NIHON DEMPA KOGYO CO., LTD. (Japan), TXC Corporation (Taiwan), Daishinku Corp. (Japan), and Microchip Technology Inc. (US)

The surface mount segment is projected to grow at a higher CAGR during the forecast period

In 2022, the surface mount segment held a larger share of the OCXO market. The growth of this segment can be attributed to the miniaturization of components, high analog and digital signal transmission speed, high-frequency effects, and improved yield and production efficiency. Surface-mount oscillators incur low material and production costs and involve a simple production process. Hence, such crystal oscillators are increasingly being used in consumer electronics and telecom & networking applications.

EMXO segment to register growth at higher CAGR

In 2022, the EMXO segment held a larger share of the OCXO market. EMXO's performance is stable and dependable under demanding operational circumstances because of the vacuum-sealed architecture. EMXOs find applications in battery-powered radio applications, seismic exploration, deep space missions, telecom transmission and switching equipment, wireless communication equipment, and military airborne and mobile systems.

Telecom & Networking application is likely to grow at a higher CAGR

Telecom & Networking application is likely to experience the highest CAGR during the forecast period. The demand for oscillators is expected to grow with the expansion of communication networks as well as the installation of 5G networks in the coming years. The requirement for reliable synchronization, accurate timing, and precise frequency references in diverse network applications drives the overall demand for OCXOs in the telecom & network industry.

Asia Pacific to register growth at highest CAGR

Globally, Asia Pacific constitutes the largest market for OCXO owing to rapid developments in China, Japan, Taiwan, and South Korea and the growing demand for telecommunication in other Asian countries. The population growth and rapid urbanization in developing economies, such as China and Japan, have accelerated regional development, boosting the demand for OCXO from the telecom and networking, consumer electronics, military and aerospace, research and measurement, industrial, automotive, and medical industries. Asia Pacific dominated the OCXO market due to the presence of OXCO manufacturing companies such as Seiko Epson Corporation, NIHON DEMPA KOGYO CO., LTD., TXC Corporation, Daishinku Corp., etc., in this region.

Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type - Tier 1 – 25%, Tier 2 – 35%, Tier 3 – 40%

By Designation— C-level Executives - 40%, Managers - 30%, Others – 30%

By Region—North America - 42%, Europe - 25%, Asia Pacific - 21%, RoW - 12%

The OCXO market is dominated by a few globally established players such as Seiko Epson Corporation (Japan), NIHON DEMPA KOGYO CO., LTD. (Japan), TXC Corporation (Taiwan), Daishinku Corp. (Japan), Microchip Technology Inc. (US), SiTime Corporation (US), Rakon Limited. (New Zealand), Abracon (US), Mercury Electronic Ind. Co., Ltd. (Taiwan), Greenray Industries, Inc. (US), MTI-Milliren Technologies, Inc. (US), QVS Tech, Inc. (US), Bliley Technologies, Inc. (US), CTS Corporation (US), Micro Crystal AG (Switzerland), MtronPTI (US), IQD Frequency Products (UK), Raltron Electronics (US), ECS Inc. (US), and AXTAL GmbH (Germany). The study includes an in-depth competitive analysis of these key players in the OCXO market, with their company profiles, recent developments, and key market strategies.

Research Coverage:

The report segments the OCXO market and forecasts its mounting scheme, by type, by application, and region. The report also discusses the drivers, restraints, opportunities, and challenges pertaining to the market. It gives a detailed view of the market across four main regions—Americas, Europe, Asia Pacific, and RoW. Supply chain analysis has been included in the report, along with the key players and their competitive analysis in the OCXO ecosystem.

Key Benefits to Buy the Report:

Analysis of key drivers (Expanding telecommunications industry and widening application scope of OCXOs). Restraint (Higher power consumption of OCXOs). Opportunity (Growing need for high-precision timing and frequency stability due to network densification and rising need for electronic device miniaturization, improved performance, and increased functionality). Challenges (High manufacturing costs compared with other oscillators and stability issues in crystal oscillators).

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the OCXO market.

Market Development: Comprehensive information about lucrative markets – the report analyses the OCXO market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the OCXO market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like Seiko Epson Corporation (Japan), NIHON DEMPA KOGYO CO., LTD. (Japan), TXC Corporation (Taiwan), Daishinku Corp. (Japan), Microchip Technology Inc. (US). among others in the OCXO market.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS AND EXCLUSIONS

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 OCXO MARKET SEGMENTATION

1.3.2 GEOGRAPHIC SCOPE

1.3.3 YEARS CONSIDERED

1.4 CURRENCY

1.5 STAKEHOLDERS

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 OCXO MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 List of key secondary sources

2.1.1.2 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Breakdown of primaries

FIGURE 3 BREAKDOWN OF PRIMARIES

2.1.2.2 Key data from primary sources

2.1.2.3 Key industry insights

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.2.1.1 Approach to obtain market share using bottom-up analysis
(demand side)

FIGURE 5 DEMAND SIDE ANALYSIS: OCXO MARKET

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach to obtain market share using top-down analysis
(supply side)

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 7 SUPPLY-SIDE ANALYSIS: OCXO MARKET (1/2)

FIGURE 8 SUPPLY-SIDE ANALYSIS: OCXO MARKET (2/2)

2.2.3 GROWTH PROJECTIONS AND FORECAST-RELATED ASSUMPTIONS

TABLE 1 MARKET GROWTH ASSUMPTIONS

2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 9 OCXO MARKET: DATA TRIANGULATION

2.4 ASSUMPTIONS

TABLE 2 KEY ASSUMPTIONS: MACRO- AND MICRO-ECONOMIC ENVIRONMENT

2.4.1 RECESSION IMPACT ANALYSIS

TABLE 3 PARAMETERS CONSIDERED TO ANALYZE IMPACT OF RECESSION ON OCXO MARKET

2.5 LIMITATIONS

2.6 RISK ASSESSMENT

TABLE 4 RISK ASSESSMENT: OCXO MARKET

3 EXECUTIVE SUMMARY

FIGURE 10 OCXO MARKET SIZE, 2019–2028

FIGURE 11 TELECOM AND NETWORKING SEGMENT TO SECURE LARGEST MARKET SHARE DURING FORECAST PERIOD

FIGURE 12 SURFACE MOUNT SEGMENT PROJECTED TO DISPLAY HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 13 FROM 2023 TO 2028, ASIA PACIFIC TO LEAD OCXO MARKET IN TERMS OF VALUE

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR PLAYERS IN OCXO MARKET

FIGURE 14 GROWING TELECOMMUNICATION INDUSTRY TO DRIVE OCXO MARKET GROWTH

4.2 OCXO MARKET, BY MOUNTING SCHEME

FIGURE 15 SURFACE MOUNT SEGMENT TO RECORD HIGHEST CAGR DURING FORECAST PERIOD

4.3 OCXO MARKET, BY TYPE

FIGURE 16 DOCXO TO DISPLAY HIGHER CAGR IN OCXO MARKET DURING FORECAST PERIOD

4.4 OCXO MARKET, BY APPLICATION

FIGURE 17 IN TERMS OF VALUE, TELECOM AND NETWORKING APPLICATION TO SECURE LARGEST SHARE OF MARKET IN 2028

4.5 OCXO MARKET, BY COUNTRY

FIGURE 18 CHINA TO RECORD HIGHEST CAGR IN OCXO MARKET DURING

FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 OVEN-CONTROLLED CRYSTAL OSCILLATOR MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Expanding telecommunications industry

FIGURE 20 GLOBAL SMARTPHONE SHIPMENTS FORECAST, BY NETWORK (2023) (MILLION UNITS)

5.2.1.2 Widening application scope of OCXOs

5.2.2 RESTRAINTS

5.2.2.1 High power consumption of OCXOs

5.2.3 OPPORTUNITIES

5.2.3.1 Growing need for high-precision timing and frequency stability due to network densification

5.2.3.2 Rising demand for electronic device miniaturization, improved performance, and increased functionality

5.2.4 CHALLENGES

5.2.4.1 High manufacturing costs compared with other oscillators

5.2.4.2 Stability issues in crystal oscillators

5.3 VALUE CHAIN ANALYSIS

FIGURE 21 OCXO MARKET: VALUE CHAIN

5.4 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS

5.4.1 REVENUE SHIFT AND NEW REVENUE POCKETS FOR MARKET PLAYERS

FIGURE 22 REVENUE SHIFT IN OCXO MARKET

5.5 ECOSYSTEM/MARKET MAP

FIGURE 23 OCXO ECOSYSTEM

5.6 PORTER'S FIVE FORCES ANALYSIS

TABLE 5 OCXO MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 24 PORTER'S FIVE FORCES ANALYSIS

5.6.1 THREAT OF NEW ENTRANTS

5.6.2 THREAT OF SUBSTITUTES

5.6.3 BARGAINING POWER OF SUPPLIERS

5.6.4 BARGAINING POWER OF BUYERS

5.6.5 INTENSITY OF COMPETITIVE RIVALRY

5.7 KEY STAKEHOLDERS AND BUYING CRITERIA

5.7.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 25 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 APPLICATIONS

TABLE 6 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 APPLICATIONS (%)

5.7.2 BUYING CRITERIA

FIGURE 26 KEY BUYING CRITERIA FOR TOP 3 APPLICATIONS

TABLE 7 KEY BUYING CRITERIA FOR TOP 3 APPLICATIONS

5.8 PATENT ANALYSIS

TABLE 8 NUMBER OF PATENTS REGISTERED IN OCXO MARKET IN LAST 10 YEARS

FIGURE 27 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS IN LAST 10 YEARS

FIGURE 28 NUMBER OF PATENTS GRANTED PER YEAR, 2013–2022

TABLE 9 PATENTS PERTAINING TO OCXO, 2020–2023

5.9 TECHNOLOGY ANALYSIS

5.9.1 GREEN CRYSTAL TECHNOLOGY

5.9.2 HYBRID MICROCIRCUIT TECHNOLOGY

5.10 CASE STUDIES

5.10.1 TXC CORPORATION LAUNCHES NEW OCXO SERIES FOR TELECOMMUNICATIONS

5.10.2 GREENRAY INDUSTRIES ANNOUNCES TWO OCXOS AT ELECTRONICA 2022 FOR INDUSTRIAL APPLICATIONS

5.10.3 NIHON DEMPA KOGYO CO., LTD LAUNCHES ULTRA-LOW PHASE NOISE OCXO FOR MEDICAL PURPOSES

5.10.4 MTI-MILLIREN TECHNOLOGIES INC. LAUNCHES 225 SERIES OCXO FOR DEFENSE AND AEROSPACE OEMS

5.10.5 MTI-MILLIREN TECHNOLOGIES INC. INTRODUCES 263 SERIES OCXO FOR MILITARY APPLICATIONS

5.10.6 CTS CORPORATION LAUNCHES VFOV414 AND VFOV415 FOR TEST & MEASUREMENT PURPOSES

5.11 KEY CONFERENCES AND EVENTS, 2023–2024

TABLE 10 OCXO MARKET: LIST OF CONFERENCES AND EVENTS

5.12 TRADE ANALYSIS

5.12.1 TRADE ANALYSIS FOR OCXOS

TABLE 11 IMPORT DATA, BY COUNTRY, 2018–2022 (USD MILLION)

TABLE 12 EXPORT DATA, BY COUNTRY, 2018–2022 (USD MILLION)

5.13 REGULATORY LANDSCAPE

5.13.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER

ORGANIZATIONS

TABLE 13 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.13.2 STANDARDS AND REGULATIONS

5.13.2.1 Regulations

5.13.2.2 Standards

5.14 PRICING ANALYSIS

5.14.1 AVERAGE SELLING PRICE TREND, BY APPLICATION

FIGURE 29 OCXO MARKET: AVERAGE SELLING PRICES

6 OCXO MARKET, BY MOUNTING SCHEME

6.1 INTRODUCTION

FIGURE 30 OCXO MARKET, BY MOUNTING SCHEME

FIGURE 31 SURFACE MOUNT OCXOS TO DISPLAY HIGHER CAGR FROM 2023 TO 2028

TABLE 16 OCXO MARKET, BY MOUNTING SCHEME, 2019–2022 (USD MILLION)

TABLE 17 OCXO MARKET, BY MOUNTING SCHEME, 2023–2028 (USD MILLION)

6.2 SURFACE MOUNT

6.2.1 OFFERS HIGHER COMPONENT DENSITY PER UNIT AND LOWER COST OF UNIT ASSEMBLIES

6.3 THROUGH-HOLE

6.3.1 REQUIRES LOW CAPITAL INVESTMENT

7 OCXO MARKET, BY TYPE

7.1 INTRODUCTION

FIGURE 32 OCXO MARKET, BY TYPE

FIGURE 33 DOUBLE OVEN-CONTROLLED CRYSTAL OSCILLATORS TO EXHIBIT HIGHER CAGR DURING FORECAST PERIOD

TABLE 18 OCXO MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 19 OCXO MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.2 DOUBLE OVEN-CONTROLLED CRYSTAL OSCILLATOR

7.2.1 REQUIREMENT OF PRECISE TIMING AND LOW-PHASE NOISE PERFORMANCE

7.3 EVACUATED MINIATURE CRYSTAL OSCILLATOR

7.3.1 GROWING DEMAND IN AEROSPACE & DEFENSE APPLICATIONS

8 OCXO MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 34 OCXO MARKET, BY APPLICATION

FIGURE 35 TELECOM AND NETWORKING APPLICATION TO DISPLAY HIGHEST CAGR FROM 2023 TO 2028

TABLE 20 OCXO MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 21 OCXO MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 22 OCXO MARKET, BY APPLICATION, 2019–2022 (THOUSAND UNITS)

TABLE 23 OCXO MARKET, BY APPLICATION, 2023–2028 (THOUSAND UNITS)

8.2 TELECOM & NETWORKING

8.2.1 DEPLOYMENT OF 5G NETWORK

TABLE 24 TELECOM & NETWORKING: OCXO MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 25 TELECOM & NETWORKING: OCXO MARKET, BY REGION, 2023–2028 (USD MILLION)

8.3 CONSUMER ELECTRONICS

8.3.1 GROWING USE OF ELECTRONIC DEVICES

TABLE 26 CONSUMER ELECTRONICS: OCXO MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 27 CONSUMER ELECTRONICS: OCXO MARKET, BY REGION, 2023–2028 (USD MILLION)

8.4 MILITARY & AEROSPACE

8.4.1 ONGOING DEVELOPMENT OF SOPHISTICATED MISSILES AND WEAPONS

TABLE 28 MILITARY & AEROSPACE: OCXO MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 29 MILITARY & AEROSPACE: OCXO MARKET, BY REGION, 2023–2028 (USD MILLION)

8.5 RESEARCH & MEASUREMENT

8.5.1 IMPROVES PRECISION AND RELIABILITY OF MEASUREMENT AND RESEARCH OPERATIONS

TABLE 30 RESEARCH & MEASUREMENT: OCXO MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 31 RESEARCH & MEASUREMENT: OCXO MARKET, BY REGION, 2023–2028 (USD MILLION)

8.6 INDUSTRIAL

8.6.1 PRIMARILY USED IN INDUSTRIAL APPLICATIONS TO ACHIEVE FREQUENCY STABILITY

TABLE 32 INDUSTRIAL: OCXO MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 33 INDUSTRIAL: OCXO MARKET, BY REGION, 2023–2028 (USD MILLION)

8.7 AUTOMOTIVE

8.7.1 TECHNOLOGY DISRUPTION IN AUTOMOTIVE SECTOR

TABLE 34 AUTOMOTIVE: OCXO MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 35 AUTOMOTIVE: OCXO MARKET, BY REGION, 2023–2028 (USD MILLION)

8.8 MEDICAL

8.8.1 ADVANCEMENTS IN MEDICAL TECHNOLOGY

TABLE 36 MEDICAL: OCXO MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 37 MEDICAL: OCXO MARKET, BY REGION, 2023–2028 (USD MILLION)

9 OCXO MARKET, BY REGION

9.1 INTRODUCTION

FIGURE 36 ASIA PACIFIC PROJECTED TO SECURE LARGEST MARKET SHARE IN 2028

TABLE 38 OCXO MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 39 OCXO MARKET, BY REGION, 2023–2028 (USD MILLION)

9.2 AMERICAS

FIGURE 37 AMERICAS: SNAPSHOT OF OCXO MARKET

TABLE 40 AMERICAS: OCXO MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 41 AMERICAS: OCXO MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 42 AMERICAS: OCXO MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 43 AMERICAS: OCXO MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

9.2.1 US

9.2.1.1 Ongoing automation of industries to boost demand

9.2.2 CANADA

9.2.2.1 Surging investments in development of advanced technologies

9.2.3 MEXICO

9.2.3.1 Participation in FTAs offers lucrative opportunities

9.2.4 REST OF AMERICAS

9.2.5 IMPACT OF RECESSION IN AMERICAS

9.3 EUROPE

FIGURE 38 EUROPE: SNAPSHOT OF OCXO MARKET

TABLE 44 EUROPE: OCXO MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 45 EUROPE: OCXO MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 46 EUROPE: OCXO MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 47 EUROPE: OCXO MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

9.3.1 UK

9.3.1.1 Advancements in electronics and networking to drive demand for crystal oscillators

9.3.2 GERMANY

9.3.2.1 Flourishing automotive sector to foster market expansion

9.3.3 FRANCE

9.3.3.1 Surging adoption of AI and ML in industrial sector to bolster market

9.3.4 REST OF EUROPE

9.3.5 IMPACT OF RECESSION IN EUROPE

9.4 ASIA PACIFIC

FIGURE 39 ASIA PACIFIC: SNAPSHOT OF OCXO MARKET

TABLE 48 ASIA PACIFIC: OCXO MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 49 ASIA PACIFIC: OCXO MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 50 ASIA PACIFIC: OCXO MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 51 ASIA PACIFIC: OCXO MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

9.4.1 CHINA

9.4.1.1 Rapid industrial development to expand market

9.4.2 JAPAN

9.4.2.1 Rising adoption of precision automation and robotics due to increasing competition to boost market

9.4.3 SOUTH KOREA

9.4.3.1 Growing demand from automotive and consumer electronics industries to drive market

9.4.4 TAIWAN

9.4.4.1 Advanced technology ecosystem to boost market growth

9.4.5 REST OF ASIA PACIFIC

9.4.6 IMPACT OF RECESSION IN ASIA PACIFIC

9.5 ROW

9.5.1 MIDDLE EAST

9.5.1.1 Presence of young population, rising urbanization, and growing income levels to impact market

9.5.2 AFRICA

9.5.2.1 Flourishing consumer electronics sector to play vital role in growth of market
TABLE 52 ROW: OCXO MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 53 ROW: OCXO MARKET, BY REGION, 2023–2028 (USD MILLION)
TABLE 54 ROW: OCXO MARKET, BY APPLICATION, 2019–2022 (USD THOUSAND)
TABLE 55 ROW: OCXO MARKET, BY APPLICATION, 2023–2028 (USD THOUSAND)

10 COMPETITIVE LANDSCAPE

10.1 INTRODUCTION

10.2 STRATEGIES ADOPTED BY KEY PLAYERS/RIGHT TO WIN

TABLE 56 OVERVIEW OF STRATEGIES DEPLOYED BY KEY OCXO
MANUFACTURERS

10.2.1 PRODUCT PORTFOLIO

10.2.2 REGIONAL FOCUS

10.2.3 ORGANIC/INORGANIC GROWTH STRATEGIES

10.3 REVENUE ANALYSIS OF TOP MARKET PLAYERS

FIGURE 40 FIVE-YEAR REVENUE ANALYSIS OF TOP FIVE PLAYERS IN OCXO
MARKET

10.4 MARKET SHARE ANALYSIS, 2022

TABLE 57 OCXO MARKET: DEGREE OF COMPETITION, 2022

10.5 KEY COMPANY EVALUATION QUADRANT, 2022

10.5.1 STARS

10.5.2 EMERGING LEADERS

10.5.3 PERVASIVE PLAYERS

10.5.4 PARTICIPANTS

FIGURE 41 KEY COMPANY EVALUATION QUADRANT: OCXO MARKET, 2022

10.6 COMPETITIVE BENCHMARKING

TABLE 58 COMPANY FOOTPRINT

TABLE 59 COMPANY APPLICATION FOOTPRINT

TABLE 60 COMPANY REGION FOOTPRINT

10.7 COMPETITIVE SCENARIOS AND TRENDS

TABLE 61 OCXO MARKET: PRODUCT LAUNCHES, 2020–2023

TABLE 62 OCXO MARKET: DEALS, 2020–2023

11 COMPANY PROFILES

(Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*

11.1 KEY PLAYERS

11.1.1 NIHON DEMP A KOGYO CO., LTD.

TABLE 63 NIHON DEMP A KOGYO CO., LTD.: COMPANY OVERVIEW

FIGURE 42 NIHON DEMP A KOGYO CO., LTD.: COMPANY SNAPSHOT

TABLE 64 NIHON DEMP A KOGYO CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 65 NIHON DEMP A KOGYO CO., LTD.: PRODUCT LAUNCHES AND DEVELOPMENTS, 2020–2023

TABLE 66 NIHON DEMP A KOGYO CO., LTD.: DEALS, 2020–2023

11.1.2 TXC CORPORATION

TABLE 67 TXC CORPORATION: COMPANY OVERVIEW

FIGURE 43 TXC CORPORATION: COMPANY SNAPSHOT

TABLE 68 TXC CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 69 TXC CORPORATION: PRODUCT LAUNCHES AND DEVELOPMENTS, 2020–2023

11.1.3 DAISHINKU CORP.

TABLE 70 DAISHINKU CORP.: COMPANY OVERVIEW

FIGURE 44 DAISHINKU CORP.: COMPANY SNAPSHOT

TABLE 71 DAISHINKU CORP.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 72 DAISHINKU CORP.: PRODUCT LAUNCHES AND DEVELOPMENTS, 2020–2023

11.1.4 SEIKO EPSON CORPORATION

TABLE 73 SEIKO EPSON CORPORATION: COMPANY OVERVIEW

FIGURE 45 SEIKO EPSON CORPORATION: COMPANY SNAPSHOT

TABLE 74 SEIKO EPSON CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.5 MICROCHIP TECHNOLOGY INC.

TABLE 75 MICROCHIP TECHNOLOGY INC.: COMPANY OVERVIEW

FIGURE 46 MICROCHIP TECHNOLOGY INC.: COMPANY SNAPSHOT

TABLE 76 MICROCHIP TECHNOLOGY INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 77 MICROCHIP TECHNOLOGY INC.: PRODUCT LAUNCHES AND DEVELOPMENTS, 2020–2023

11.1.6 SITIME CORPORATION

TABLE 78 SITIME CORPORATION: COMPANY OVERVIEW

FIGURE 47 SITIME CORPORATION: COMPANY SNAPSHOT

TABLE 79 SITIME CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 80 SITIME CORPORATION: DEALS, 2020–2023

11.1.7 RAKON LIMITED

TABLE 81 RAKON LIMITED: COMPANY OVERVIEW

FIGURE 48 RAKON LIMITED: COMPANY SNAPSHOT

TABLE 82 RAKON LIMITED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 83 RAKON LIMITED: PRODUCT LAUNCHES AND DEVELOPMENTS,
2020–2023

11.1.8 MERCURY ELECTRONIC IND. CO., LTD.

TABLE 84 MERCURY ELECTRONIC IND. CO., LTD.: COMPANY OVERVIEW

TABLE 85 MERCURY ELECTRONIC IND. CO., LTD.:
PRODUCTS/SOLUTIONS/SERVICES OFFERED

11.1.9 ABRACON

TABLE 86 ABRACON: COMPANY OVERVIEW

TABLE 87 ABRACON: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 88 ABRACON: PRODUCT LAUNCHES AND DEVELOPMENTS, 2020–2023

11.1.10 GREENRAY INDUSTRIES, INC.

TABLE 89 GREENRAY INDUSTRIES, INC.: COMPANY OVERVIEW

TABLE 90 GREENRAY INDUSTRIES, INC.: PRODUCTS/SOLUTIONS/SERVICES
OFFERED

TABLE 91 GREENRAY INDUSTRIES, INC.: PRODUCT LAUNCHES AND
DEVELOPMENTS, 2020–2023

11.2 OTHER PLAYERS

11.2.1 MTI-MILLIREN TECHNOLOGIES, INC.

11.2.2 QVS TECH, INC.

11.2.3 BLILEY TECHNOLOGIES, INC.

11.2.4 IQD FREQUENCY PRODUCTS

11.2.5 MTRONPTI

11.2.6 RALTRON ELECTRONICS

11.2.7 ECS INC.

11.2.8 CTS CORPORATION

*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

12.3 CUSTOMIZATION OPTIONS

12.4 RELATED REPORTS

12.5 AUTHOR DETAILS

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