

Company Profile



NAME Head Office

KOYO PRECISION CO.,LTD

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Yamanashi,403-0002 JAPAN

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URL http://www.koyo-seimitu.co.jp

5-25-18 Tokyo-to Shinagawa-ku Higashigotanda

KEC building 8F Japan

Eiku Oshiro

November 1957

yen 10 million

Crystal Oscillators

55 as of Apr. 2010





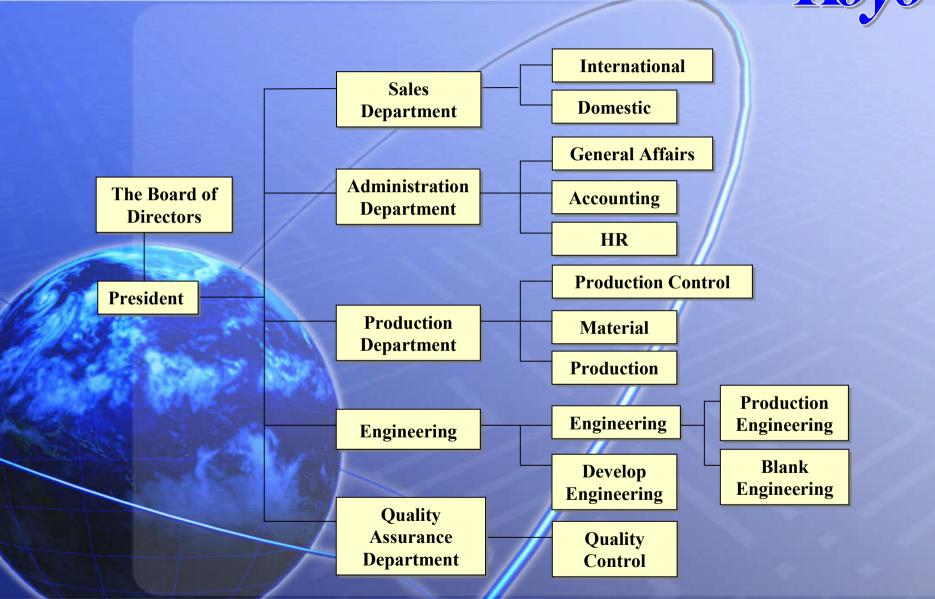


Tokyo Office

President
Foundation
Capital
Business
Employees

Company Organization





Company History



Nov / 1957	Founded as koyo juseki Seisakusho in kanagawa, 20 miles south of Tokyo.
Oct / 1960	Yamanashi Plant began operation in Tsuru-city, Yamanashi.
Oct / 1965	Quartz Vibrator Division formed.
Aug / 1971	Company name changed to koyo Precision Co.,Ltd.
Jul / 1976	Fujiyoshida Plant completed.
Mar / 1982	Crystal Oscillator Division began operation.
Dec / 1984	Asumi Plant completed.
Sep / 1990	Asumi Plant equipped with clean-room system and became the
the same	main factory.
Oct / 1992	Main office moved to Koasumi, the current location.
Sep / 2004	Reduction capital to Yen 10 million.
Sep / 2005	Moved the Crystal polish process from Tsuru Factory to Head-quaters
	one.
Oct / 2007	Get the certification of ISO9001.

Company Objectives



Objectives

- (1) The company makes an utmost effort to fulfill Customers satisfaction and to maintain our spectacular reputation in the market
- (2) The company serves the society consistently by supplying the highest quality products, and creates a prosperous future for customers, suppliers and employees



Company Policy



Policy

- (1) To develop and produce leading products with a highest quality
- (2) To listen sincerely to customers and fulfill their needs
- (3) To create company's bright future for employees and their families



Major Customers



Main treading partners

VECTRON INTERNATIONAL, SUNNY GROUP, FANUC, YOKOGAWA, ONO SOKKI, FURUKAWA ELECTRIC, HIRAKAWA HEWTECH CORP, RELIANCE ELECTRIC, KAGA ELECTRONICS, SATORI ELECTRIC, HISHIDEN COMMERCIAL, SUMITRONICS, NAKAMURA DENKI, SUN-WA TECHNOS CORP, RYOSAN, FUJITRON, MAKI ELECTRO, PIONICS, TOYO KIZAI, ISOTRONICS, SEIDEN, etc...

Suppliers

SEAGATE, CISCO SYSTEMS, INTEL, HUAWEI, HP,
NOKIA, ALCATEL-LUCENT, CANON,
NEC GROUP, TOSHIBA GROUP, PANASONIC,
MITSUBISHI ELECTRIC, ROM, OKI DENKI,
HITACHI INTERNATIONAL ELECTORIC, CIS
NAKAYO TELECOMMUNICATIONS, LG, SAMSUNG, etc...

Main Products



SMD Crystal Clock Oscillators-CMOS series

KCO-200series
1MHz ~ 50MHz

KCO-300series
1MHz ~60MHz

*KCO-500series*1MHz ~ 150MHz

*KCO-600series*1MHz ~ 220MHz









LVPECL&LVDS series PLL(Multi)

KPO, KLO-600series MPO, MLO-600series 25MHz~250MHz 1MHz~800MHz

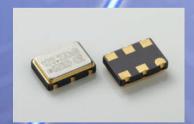
Voltage Controlled Crystal Oscillators

KCV-600series
10MHz ~ 80MHz

(VCXO)







CAPACITY

1000kpcs / M

Applications





KCO-600 Series

100~150MHz

(1.8V~3.3V)

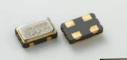
 $(2.5V \sim 3.3V)$

•HDD. PDP

Communication equipment

155.52~212.5MHz

Optical communication



KCO-500 Series

28~150MHz (1.8V~3.3V)

- Industrial camera
- Communication equipment



KCO-300 Series

14~30MHz (1.8V~5.0V)

- Portable terminal
- ·LAN •PND
- Notebook computer

25~250MHz

(2.5Vor3.3V)

- SONET/SDH
- Fiber Channel
- Ethernet, GbE
- SAN FPGA
- Digital Video



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- Fiber Channel
- •Ethernet, GbE
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- Digital Video

14~30MHz (1.8V~5.0V)

- Portable terminal
- ·LAN ·PND
- Notebook computer



KCO-200 Series



10~80MHz

- (2.5Vor3.3V)
- ·xDSL,
- -WDM
- •PC card

VCXO



KCV-600 Series



77~170MHz $(3.3V \sim 5.0V)$

- ·SONET/SDH
- Fiber Channel
- -LAN/WAN

Developing



KPV-600 Series * LVPECL Output



1~800MHz

- (3.3V)
- Fiber Channel
- •Ethernet, GbE
- ·SAN ·FPGA

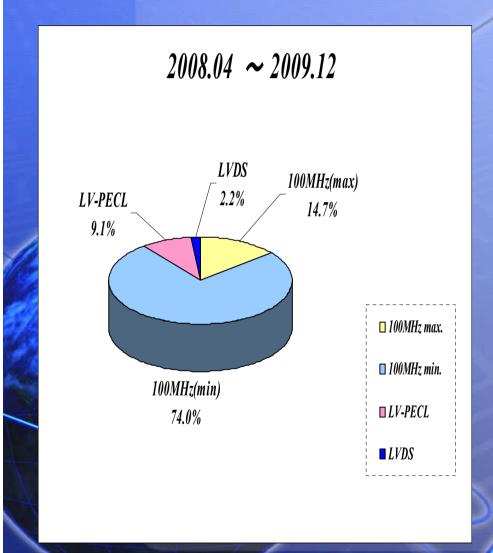
LVPECL,LVDS Output

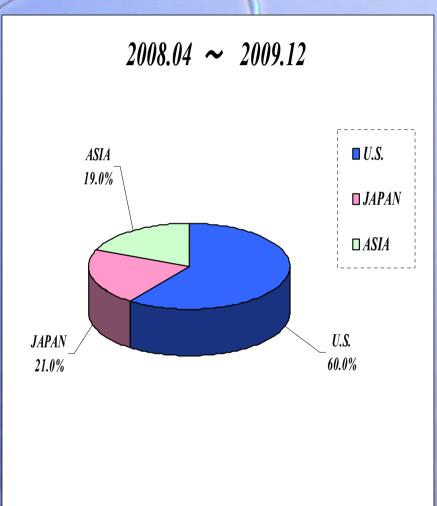
MPO,MLO-600 Series (PLL)

CMOS Output LVPECL,LVDS Output

Market Segmentation and production of frequency







ROAD MAP





60~130MHz (1.8~3.3V)

1~700MHz (1.8~3.3V) $\pm 20ppm$

Planning

Developing

3.2 × 2.5 PKG PECL&LVDS 30MHz~155MHz

Ultra miniature size PECL/LVDS

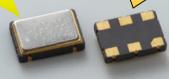
Ultra miniature size, High-Frequency SPXO

80~170MHz $(3.3 \sim 5.0V)$

Low Noise ultra high frequency

30~155MHz (1.8~3.3V)

Developing



HCSL Series

Planning

5.0 × 3.2 PKG PLL: PECL&LVDS 1MHz~700MHz

Ultra high-frequency miniature PECL/LVDS

MPV,MLV-600 Series PLL(Multi)

New.

High-temperature, High-stability SPXO

 $I.2.5 \sim 55MHz (3.3V) \pm 50ppm/-40+125 °C$

±15ppm/-10~+70℃

2010

ligh-Frequency

2011

2012

Developing Product



Low Noise ultra high-frequency crystal oscillator MPO-600, MLO-600series (PLL/Multi)

Frequency Range 1.000MHz ~ 700.000MHz

Frequency Stability ± 20ppm,

Voltage controlled high-frequency crystal oscillator KPV-600 series (PECL Output)

Frequency Range 170.000MHz

Frequency Stability ± 50ppm, ± 100ppm

HCSL Output crystal oscillator

KHO-600series (HCSL)

Frequency Range 30.000MHz ~ 155.000MHz

Frequency Stability ± 25ppm ~ ± 100ppm

Operating Temp.Range -40 ~+85

Quality Control



Policy

We have produced many Crystal parts for years.
They will give you a satisfaction of your specification request and will not let you down.



Because we will form following I.S.O system and will continue the improvement of effect.

Action

- a) We promote the standard issues for Quality process.
- b) We have made products faithfully for accommodation to your specification.

Sensitive Subject

- a) We have made products with regulations against Pb-Free and RoHS rule.
- b) We have received a prize from Vectron as high-quality company, and they got us only recognition factory in Japan.

Certificate Awarded





CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

KOYO PRECISION CO., LTD. Fujiyoshida-shi, Yamanashi-ken Japan

has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standards:

ISO 9001:2000, JIS Q 9001:2000

The Quality Management System is applicable to:

Design, development and manufacture of crystal oscillators.

Approval Certificate No: YKA 4003990 Original Approval: 9 October 2007

Current Certificate: 9 October 2007

Certificate Expiry: 8 October 2010

Issued by: Lloyd's Register Quality Assurance Limited





This document is subject to the provision on the reverse
71 Fenchurch Street, London ECBM 485 United Kingdom, Registration number 1879370
This MAC Accordance Notes to the CBM 485 United Kingdom, Registration number 1879370
The use of the IMAS Accordance Notes Income CBM 485 Accordance

Certificate of Green Activity

株式会社光陽精密

This is to certify that you have satisfied the environmental management activity required by Canon Green Procurement Standards.

Term of Validity: March/2009

- March/2011

Canon Inc., Tokyo, Japan

April 20, 2009

Kiyoto Furuta

Senior General Manager Environment Planning Center Environment Headquarters, CANON INC.

No. 5057

Canon