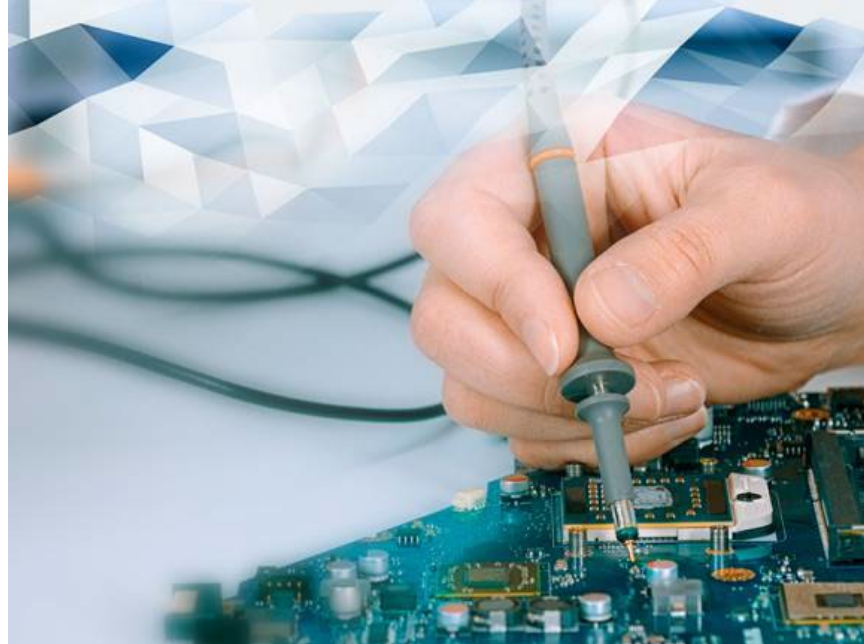


Design- and Test Center

We will be with you providing professional design support throughout your project. Our worldwide service includes personal consulting and validation of your circuit up to guaranteed delivery of your components purchased from us. One of our strengths is to include the experience and know-how already provided in the development phase throughout the lifetime of the project.

Another strength is the support of long-term projects with durations of over 15 years and more through our long-term delivery guarantee and lifecycle management.



GEYER
quartz technology

GEYER
quartz technology

Quartz Crystals and Oscillators directly from the manufacturer

OUR SERVICE – YOUR ADVANTAGE

Take advantage of our know-how from almost 60 years of quartz technology

- * Detailed, personal consultation
- * Design and ReDesign Support
- * Crossing: Search for alternative, equivalent components
- * Reference designs
- * Measured samples for pilot series and prototypes
- * Validation of your circuit
- * Y-Design app with analysis tool
- * Test of the finished assembly for various parameters
- * Matched specifications and sizes
- * 3D models of our components to facilitate design-in

Your advantage – Profit from our experience

- * Avoiding uncertainty in component selection or specification
- * Shortened development time
- * Increased operational reliability in series production
- * Cost-optimized component selection
- * Optimum life expectancy in series

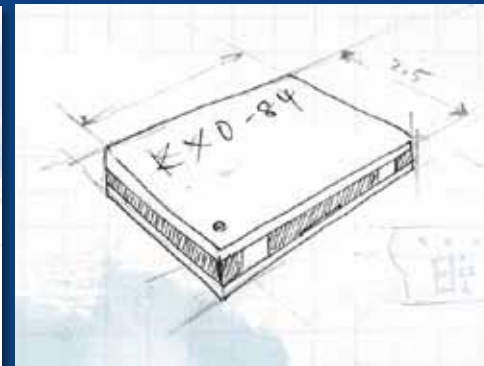
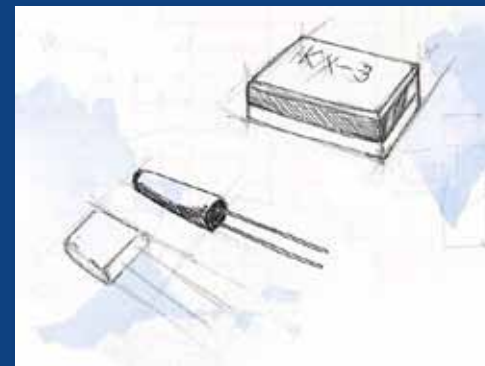
GEYER Y-Design App with Analysis Tool

The simulation app newly launched and further developed by GEYER Electronic supports you with just a few clicks when creating your design and existing circuits can be checked or optimized. Therefore it will help you to choose the right quartz crystal.



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Product Overview

Design- and Test Center



Setting the pace for 60 years: In Germany and worldwide

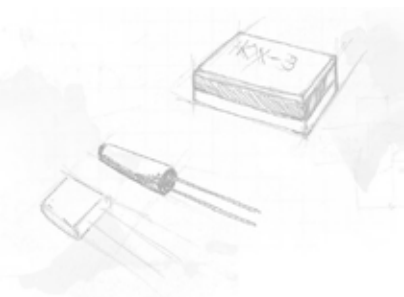
For decades GEYER Electronic has been one of the leading manufacturers of frequency products, Quartz Crystals and Oscillators.

Quartz Crystals and Tuning Fork Crystals – precise and constant

We supply quartz crystals and tuning fork crystals from our own production for industrial applications where the highest accuracy and reliability have top priority.

We convince our customers through sustainability, reliability and availability of a wide range of components.

- * Smallest possible sizes
- * Reliable signal transmission
- * Standard tolerances of only +/-10 ppm at +25 °C
- * Standard tolerances of only +/-15 ppm at -40 °C to +85 °C
- * Low ESR values
- * Extended temperature ranges from -40 °C to +150 °C
- * Low aging of only +/-2 ppm in the first year
- * AEC-Q200 qualified crystals for automotive applications

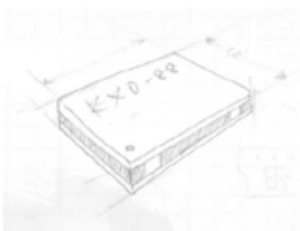


XOs, VCXOs, TCXO/VCTCXOs – setting the pace with GEYER-Oscillators

We offer a wide range of oscillators. Different frequency ranges and tolerances are available depending on the application. We supply oscillators of the types PXO/XO/SSO, VCXO/LVDS/PECL, TCXO/VCTCXO and also implement customer-specific requests. As a result, we offer the right solution for every application.

All our oscillators are characterized by the highest precision, long-term stability and reliability.

- * Wide frequency range
- * Standard tolerances of only +/-25 ppm at -40 °C to +85 °C
- * Extended temperature ranges up to +125 °C
- for automotive industry, aviation, measuring instruments
- * Low power consumption
- * Short transient times



BUSINESS FOCUS

Founded in 1964, we serve our customers worldwide from our headquarters in Germany and other locations in Europe, Asia and the USA.

We attach great importance to close cooperation with our customers beginning at the development phase. This ensures that we deliver exactly what you need right from the start. We offer a wide range of precise and high-quality frequency products for the following applications:

Industry Automation | Telecommunications | Smart Cities & Smart Building | Automotive | Medical Technology | Wearables | Consumer Electronics



QUARTZ CRYSTALS AND TUNING FORK CRYSTALS

Quartz Crystals

KX-2	1.0 x 0.8 mm	40 – 100 MHz	4 – 6 pF
KX-3	1.2 x 1.0 mm	26 – 60 MHz	6 – 12 pF
KX-4	1.6 x 1.2 mm	24 – 80 MHz	8 – 16 pF
KX-5	2.0 x 1.6 mm	16 – 80 MHz	8 – 16 pF
KX-6	2.5 x 2.0 mm	12 – 80 MHz	8 – 16 pF
KX-7	3.2 x 2.5 mm	8 – 80 MHz	7 – 20 pF
KX-9	5.0 x 3.2 mm	7.68 – 300 MHz	10 – 20 pF
KX-12	6.0 x 3.5 mm	8 – 150 MHz	10 – 20 pF
KX-13	7.0 x 5.0 mm	6 – 160 MHz	12 – 20 pF
KX-K	12.3 x 4.5 mm	3.5 – 70 MHz	12 – 30 pF

Tuning Fork Crystals

KX-327V	1.2 x 1.05 mm	6 – 12.5 pF	90 kΩ (max.)
KX-327F	1.6 x 1.0 mm	4 – 12.5 pF	90 kΩ (max.)
KX-327R	2.0 x 1.2 mm	6 – 12.5 pF	70 kΩ (max.)
KX-327NH	3.2 x 1.5 mm	6 – 12.5 pF	70 kΩ (max.)
KX-327L	7.0 x 1.5 mm	6 – 12.5 pF	65 kΩ (max.)
KX-327S	8.2 x 3.8 mm	6 – 12.5 pF	50 kΩ (max.)

THT Crystals

KX-26	6.0 x Ø 2 mm	32.768 kHz	6 – 12.5 pF
KX-38	8.0 x Ø 3 mm	32.768 kHz	6 – 12.5 pF
KX-3H	11.35 x 4.65 mm	3.2768 – 70 MHz	10 – 30 pF

More detailed product information about our quartz crystals can be found in our webshop: geyer-electronic.shop/en/quartz-crystals



OSCILLATORS

Oscillators

XO	1.6 x 1.2 to 7.0 x 5.0 mm	HCMOS	1 – 200 MHz	±20 ppm/ ±25 ppm/ ±50 ppm
XO kHz	1.6 x 1.2 to 7.0 x 5.0 mm	HCMOS	32.768 kHz	±20 ppm/ ±25 ppm/ ±50 ppm
SSO	5.0 x 3.2 mm	HCMOS	13 – 160 MHz	±20 ppm/ ±25 ppm/ ±50 ppm
LVDS	3.2 x 2.5 to 7.0 x 5.0 mm	LVDS	10 – 800 MHz	±25 ppm/ ±50 ppm
VCXO	3.2 x 2.5 to 7.0 x 5.0 mm	HCMOS	1 – 170 MHz	±25 ppm/ ±50 ppm
VCXO	5.0 x 3.2 to 7.0 x 5.0 mm	LVDS	20 – 700 MHz	±25 ppm/ ±50 ppm
TCXO	1.6 x 1.2 to 7.0 x 5.0 mm	HCMOS + Clipped Sinewave	6 – 60 MHz	±0.5 ~ 2.5 ppm
VCTCXO	2.0 x 1.6 to 7.0 x 5.0 mm	HCMOS + Clipped Sinewave	6 – 60 MHz	±0.5 ~ 2.5 ppm
PECL	5.0 x 3.2 to 7.0 x 5.0 mm	PECL	13.5 – 312.5 MHz	±25 ppm/ ±50 ppm

More detailed product information about our oscillators can be found in our webshop: geyer-electronic.shop/en/oscillators

