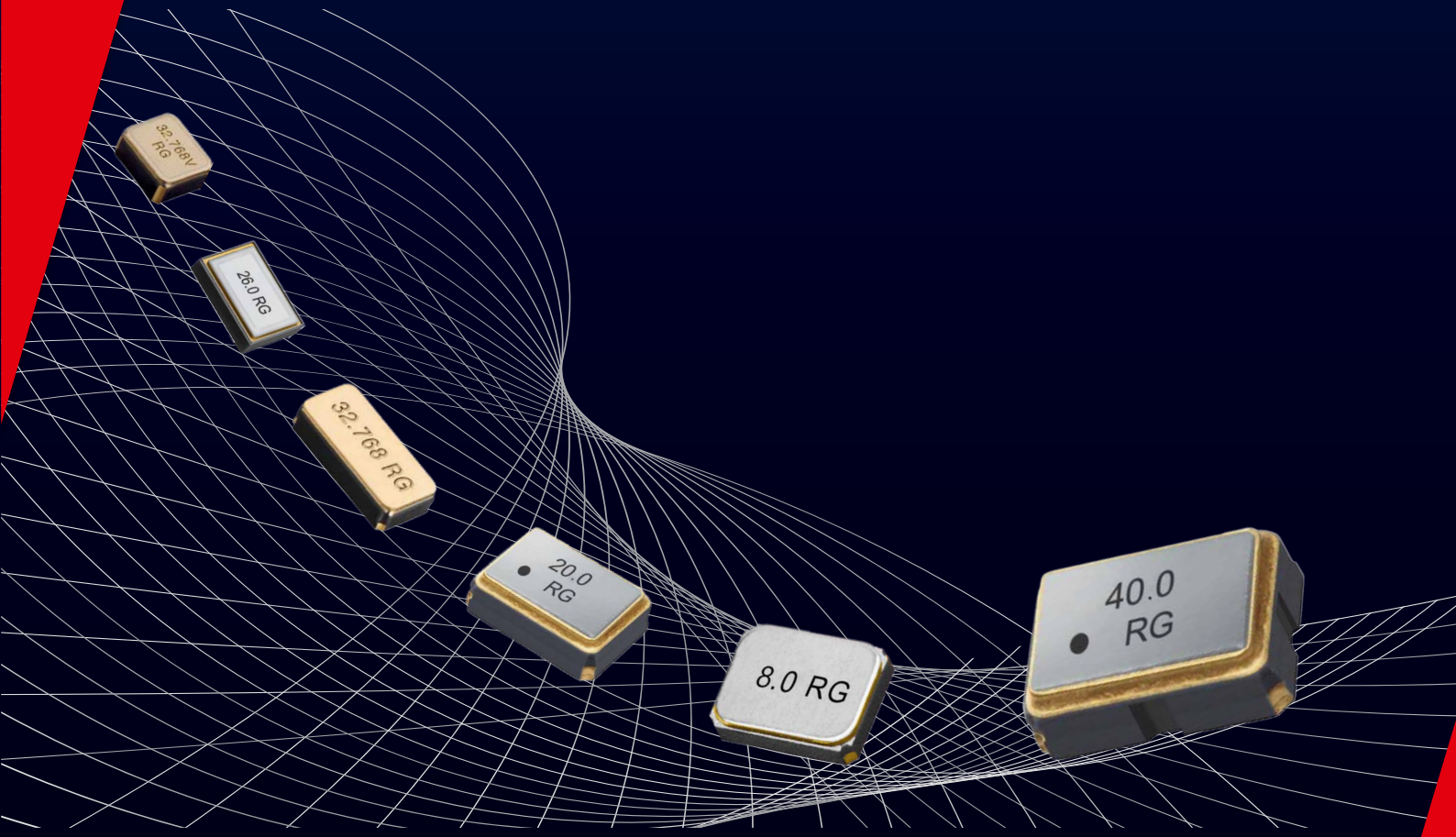
GEYER
quartz technology

Your Solution for Quartz Crystals and Oscillators



QUALITY FOR MORE THAN 50 YEARS
GEYER

Produktübersicht

Product Overview

Présentation du produit

PRODUCER for Quartz Crystals and Oscillators

GEYER electronic, gegründet 1964, ist ein führender Hersteller von Schwingquarzen und Oszillatoren mit Produktionsstätten im asiatischen Raum.
Ein globales Vertriebsnetzwerk garantiert unseren Kunden weltweite Verfügbarkeiten unserer Produkte, sowie kurze Lieferzeiten.

Wir bieten:

- Eine hohe Lagerkapazität
- Kostenlose Musterbauteile
- Liefersicherheit über die gesamte Projektzeit
- Realisierbare Lieferzeiten und kostenoptimierte Preise
- Kanban und Ship to Stock Systeme
- Sicherheitslager auf Kundenwunsch
- Langzeitverfügbarkeiten
- Zertifizierungen nach ISO9001 und AEC-Q200

GEYER electronic, founded in 1964, is a leading manufacturer of oscillating crystals and oscillators with Production in Asia. A global distribution network guarantees our customers worldwide availability of our products and short delivery times.

We offer:

- High storage capacity
- Free sample
- Security of supply over the entire project period
- Realizable delivery times and cost-effective prices
- Global customer-oriented logistics concepts like Kanban or Just in time
- Safety stock to customer
- Long term guarantee of delivery
- Certified according to DIN ISO9001 and AEC-Q200

GEYER electronic, fondé en 1964, est devenu un fabricant de premier plan de quartz et d'oscillateurs, avec des sites de production en Asie. Un réseau global de commercialisation nous permet de garantir des délais de livraisons courts et la disponibilité de nos produits à nos clients.

Nous proposons:

- Grandes capacités de stockage
- Echantillons gratuits
- Sécurité d'approvisionnement pour la durée totale de votre projet
- Délais de livraisons réalistes et des articles aux meilleurs prix
- Livraisons KANBAN et Ship To Stock
- Stock de sécurité sur demande
- Disponibilité des produits pour une longue durée
- Certifications ISO9001 et AEC-Q200

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RoHS 2011/65/EU REACH compliant Conflict minerals free

SMD UHRENQUARZE - TUNING FORK CRYSTALS

	Type	avail.	size mm	temp. range max.	freq. stability	freq. range
	KX-327VT		1.25 | 1.05 | 0.5	-40° ... +85°C	±10 ... ±20ppm	32.768kHz
	KX-327FT		1.6 | 1.0 | 0.5	-40° ... +85°C	±10 ... ±20ppm	32.768kHz
	KX-327RT(S)		2.0 | 1.2 | 0.6 (0.35)	-40° ... +85°C	±10 ... ±20ppm	32.768kHz
	KX-327RF		2.0 | 1.2 | 0.6	-40° ... +125°C	±20ppm	32.768kHz
	KX-327NHT		3.2 | 1.5 | 0.8	-40° ... +85°C	±10 ... ±20ppm	32.768kHz
	KX-327NHF		3.2 | 1.5 | 0.8	-40° ... +125°C	±20ppm	32.768kHz
	KX-327XS		4.95 | 1.8 | 0.96	-40° ... +85°C*	±10 ... ±20ppm	32.768kHz
	KX-327L		7.0 | 1.5 | 1.4	-40° ... +85°C*	±10 ... ±20ppm	32.768kHz
	KX-327S		8.2 | 3.8 | 2.5	-40° ... +85°C*	±5 ..... ±20ppm	32.768kHz

SMD SCHWINGQUARZE - QUARTZ CRYSTALS

	Type	avail.	size mm	temp. range max.	freq. stability	freq. range
	KX-3T		1.2 | 1.0 | 0.3	-40° ... +85°C	±10 ... ±50ppm	26 ... 52MHz
	KX-4		1.6 | 1.2 | 0.3	-40° ... +125°C*	±10 ... ±50ppm	24 ... 80MHz
	KX-5		2.0 | 1.6 | 0.45	-40° ... +125°C*	±30 ... ±50ppm	16 ... 80MHz
	KX-6		2.5 | 2.0 | 0.55	-40° ... +125°C*	±10 ... ±50ppm	12 ... 80MHz
	KX-7		3.2 | 2.5 | 0.8	-40° ... +125°C*	±10 ... ±50ppm	8 ... 66MHz
	KX-9A		5.0 | 3.2 | 1.0	-40° ... +105°C*	±10 ... ±50ppm	7.680 ... 300MHz
	KX-9B		5.0 | 3.2 | 1.1	-40° ... +105°C*	±10 ... ±50ppm	8 ... 50MHz
	KX-12A		6.0 | 3.5 | 1.1	-40° ... +105°C*	±10 ... ±50ppm	8 ... 150MHz
	KX-12B		6.0 | 3.5 | 1.0	-40° ... +105°C*	±30ppm	8 ... 50MHz
	KX-13		7.0 | 5.0 | 1.3	-40° ... +105°C*	±10 ... ±50ppm	6 ... 160MHz
	KX-14		8.0 | 4.5 | 1.6	-40° ... +105°C*	±50ppm	4 ... 60MHz
	KX-20		11.6 | 5.5 | 1.6	-40° ... +105°C*	±50ppm	3.579545 ... 25MHz
	KX-K(S)		12.3 | 4.5 | 4.2 (3.2)	-40° ... +85°C*	±10 ... ±50ppm	3.5 ... 70MHz
	KX-C		12.5 | 4.6 | 3.7	-40° ... +105°C*	±50ppm	3.5 ... 24MHz

THT Crystals

	Type	size mm	temp. range max.	freq. stability	freq. range
	KX-26 KX-38	6.2 | Ø 2 8.0 | Ø 3	-40° ... +85°C*	±30ppm ±20ppm	32.768 kHz
	KX-49	11.3 | 4.9 | 13.6	-40° ... +105°C*	±5 ... ±50ppm	1.843 ... 200MHz
	KX-3H	11.35 | 4.65 | 3.6	-40° ... +105°C*	±10 ... ±30ppm	3.2 ... 70MHz

* Stand. temp. Range -20° ... +70°C available

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OSZILLATOREN - CLOCK OSCILLATORS

	Type	avail.	size mm	temp. range max.	freq. stability	freq. range
	KXO-56 SSO		5.0 | 3.2 | 1.2	-40° ... +85°C	±50ppm	1 ... 134MHz
	KXO-V93T		1.6 | 1.2 | 0.6	-40° ... +85°C*	±30ppm ±50ppm	1 ... 80MHz
	KXO-V94		2.0 | 1.6 | 0.8	-40° ... +85°C*	±50ppm ±100ppm	1 ... 80MHz
	KXO-V95	AECQ200	2.5 | 2.0 | 0.82	-40° ... +125°C*	±50ppm ±100ppm	32.768kHz 1 ... 70MHz
	KXO-V32T		3.2 | 1.5 | 0.9	-40° ... +85°C	±10ppm ±20ppm	32.768kHz
	KXO-V96	AECQ200	3.2 | 2.5 | 1.2	-40° ... +125°C*	±50ppm ±100ppm	32.768kHz 1 ... 133MHz
	KXO-V99		5.0 | 3.2 | 1.2	-40° ... +125°C*	±50ppm ±100ppm	32.768kHz 1 ... 200MHz
	KXO-V97		7.0 | 5.08 | 1.3	-40° ... +125°C*	±50ppm ±100ppm	32.768kHz 1 ... 160MHz
	KXO-97**		7.0 | 5.08 | 1.3	-40° ... +125°C*	±50ppm ±100ppm	32.768kHz 1 ... 100MHz
	DIL 14 KXO-200/400		20.8 | 13.2 | 5.08	-40° ... +85°C*	±25ppm ... ±100ppm	0.5 ... 100MHz
	DIL 8 KXO-210/410		13.2 | 13.2 | 6.0	-40° ... +85°C*	±25ppm ... ±100ppm	0.5 ... 100MHz
	VCXO					
	KXO-72		5.0 | 3.2 | 1.3	-40° ... +85°C*	±50ppm ... ±100ppm	1 ... 80MHz
	KXO-72R		5.0 | 3.2 | 1.3	-40° ... +85°C*	±50ppm ... ±100ppm	1 ... 80MHz
	KXO-75		7.0 | 5.0 | 1.7	-10° ... +85°C*	±10ppm ... ±50ppm	1.544 ... 77.760MHz
	KXO-75R		7.0 | 5.0 | 1.7	-10° ... +85°C*	±10ppm ... ±50ppm	1.544 ... 77.760MHz
	VCTCXO					
	KXO-81 sinewave		2.0 | 1.6 | 0.7	-30° ... +75°C	±2.5ppm	13 ... 40MHz
	KXO-86 sinewave		2.5 | 2.0 | 0.7	-30° ... +75°C	±2.5ppm	13 ... 40MHz
	KXO-84 sinewave		3.2 | 2.5 | 1.0	-30° ... +75°C	±2.5ppm	10 ... 40MHz
	KXO-84 HCMOS		3.2 | 2.5 | 1.0	-40° ... +85°C	±1.0ppm	8 ... 40MHz
	KXO-83 sinewave		5.0 | 3.2 | 1.5	-40° ... +85°C*	±1.5ppm ... ±5ppm	12 ... 26MHz
	KXO-82 sinewave		7.0 | 5.0 | 2.4	-30° ... +80°C	±2.0ppm	12.6 ... 20MHz
	TCXO					
	KXO-81 sinewave		2.0 | 1.6 | 0.7	-40° ... +85°C	±2.0ppm	13 ... 52MHz
	KXO-86 sinewave		2.5 | 2.0 | 0.7	-30° ... +75°C	±2.5ppm	12 ... 26MHz
	KXO-86 HCMOS		2.5 | 2.0 | 0.7	-30° ... +75°C	±2.5ppm	13 ... 54MHz
	KXO-84 sinewave		3.2 | 2.5 | 1.0	-30° ... +75°C	±2.5ppm	10 ... 40MHz

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	Type	size mm	temp. range max.	freq. stability	freq. range
	KXO-84 HCMOS	3.2 | 2.5 | 1.0	-30° ... +75°C	±2.5ppm	10 ... 40MHz
	KXO-83 sinewave	5.0 | 3.2 | 1.5	-40° ... +85°C*	±1.5ppm ... ±5ppm	12 ... 26MHz
	KXO-83 HCMOS	5.0 | 3.2 | 1.5	-40° ... +85°C*	±1.5ppm ... ±3ppm	10 ... 40MHz
	KXO-82 sinewave	7.0 | 5.0 | 2.4	-30° ... +80°C	±2.0ppm	10 ... 30MHz
	KXO-82 HCMOS	7.0 | 5.0 | 2.4	-40° ... +85°C*	±1.0ppm ... ±3ppm	10 ... 30MHz
	LVDS				
	KXO-V64	3.2 | 2.5 | 1.0	-40° ... +85°C*	±20ppm ... ±100ppm	10 ... 1500MHz
	KXO-V66	5.0 | 3.2 | 1.2	-40° ... +85°C*	±25ppm ... ±100ppm	40 ... 600MHz
	KXO-V62 VCXO	5.0 | 3.2 | 1.2	-40° ... +85°C*	±25ppm ... ±50ppm	20 ... 700MHz
	KXO-V65	7.0 | 5.0 | 1.7	-40° ... +85°C*	±50ppm ... ±100ppm	19.44 ... 700MHz
	KXO-V63 VCXO	7.0 | 5.0 | 1.7	-40° ... +85°C*	±25ppm ... ±100ppm	20 ... 700MHz
	PECL				
	KXO-68	5.0 | 3.2 | 1.2	-40° ... +85°C*	±25ppm ... ±100ppm	25 ... 180MHz
	KXO-67	7.0 | 5.0 | 1.7	-40° ... +85°C*	±25ppm ... ±100ppm	50 ... 212.50MHz
	VCO				
	KXO-59	12.7 | 12.7 | 2.8 8.0 | 6.0 | 1.8	-40° ... +85°C*		310MHz ... 5.0GHz

* Stand. temp. Range -20° ... +70°C available ** Input Voltage 5V

RESONATOREN - CERAMIC RESONATORS

	Type	size mm	temp. range max.	freq. stability	freq. range
	KX-ZTT CW	1.9 | 2.4 | 1.5	-20° ... +80°C	±0.3%	16 ... 50MHz
	KX-ZTT CE	3.2 | 1.3 | 1.0	-25° ... +85°C	±0.3%	8 ... 12.2880MHz
	KX-ZTT CV	3.1 | 3.7 | 1.0	-20° ... +80°C	±0.3%	8 ... 50MHz
	KX-ZTT CR	4.5 | 2.0 | 1.2	-25° ... +85°C	±0.3%	4 ... 8MHz
	KX-ZTT CS	4.1 | 4.7 | 1.6	-20° ... +80°C*	±0.3 ... 0.4%	6 ... 50MHz
	KX-ZTT CP	6.0 | 3.0 | 1.8	-20° ... +80°C	±0.3%	2 ... 12MHz

FILTER - FILTERS

	Type	size mm	temp. range max.	freq. stability	freq. range
	KX-SF	2.5 | 2.0 | 0.8 1.4 | 1.1 | 0.6	-40° ... +95°C		70 ... 1588.655MHz

* Stand. temp. Range -20° ... +70°C available

Weitere Bauteile und Spezifikationen auf Anfrage erhältlich.
Other components and specifications available on request.
D'autres composants et les spécifications sont disponibles sur demande.

GEYER quartz technology

Design- und Testcenter

Auswahl von Bauteilen

Schaltungsbegutachtung

Messungen und Analysen von Baugruppen

Wir bieten einen weltweit außergewöhnlichen Service:

- Ausführliche Beratung
- Validierung Ihrer Schaltung
- Ausgemessene Muster für Vorserien und Prototypen
- Abgestimmte Spezifikationen und Baugrößen
- 3D Modelle unserer Bauteile zur Erleichterung des Design-in
- Kostenlose Simulations - App
- Test der fertigen Baugruppe auf verschiedenste Parameter

Ihre Vorteile:

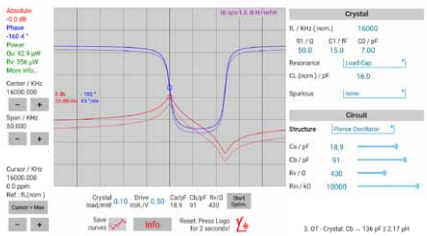
- Vermeidung von Unsicherheiten bei der Bauteileauswahl oder Spezifikation
- Verkürzte Entwicklungsdauer
- Erhöhte Betriebssicherheit in der Serie
- Kostenoptimierte Bauteileauswahl
- Optimale Lebenserwartung in der Serie

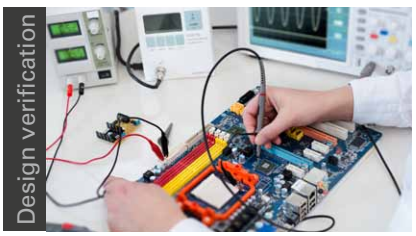
Sie erhalten:

- Ausführliche Beratung zum Schaltungsdesign neuer Schaltungen

Unter den Gesichtspunkten von:

- Frequenzgenauigkeit von unterschiedlichen Versorgungsspannungen
- Frequenzgenauigkeit über den Arbeitstemperaturbereich
- Anschwingverhalten bei verschiedenen Temperaturen
- Anschwingsicherheit
- Stromverbrauch
- Layout Optimierung
- Auswahl kostengünstiger Bauteile





Design and Test Center

Part selection
Evaluation of Circuit Design
Measurements and Analysis of PCBs

We offer your Design Engineers an exceptional worldwide service:
- Comprehensive consulting
- Validation of your design
- Our own Design and Test center
- Selected samples for prototypes and pilot series
- Matched specifications and design sizes
- 3D models of our components for easy design-in
- Free Geyer App-Y-Quartz with analyzing tool
- Testing of boards on selected parameters

Your benefits:
- Prevention from incorrect decisions in component selection or specification
- Shorter development time
- Enhanced reliability of operation in production run
- Cost-optimized component selection
- Optimum design life in production run

You get:
- Comprehensive advice in design of new circuits

With regard to:
- Frequency deviation at different supply voltages
- Frequency deviation at different temperatures
- Start-up at different temperatures
- Start allowance
- Current consumption
- Layout optimizing
- Selection of economic components

Laboratoire de Design et de Tests

Choix de composants
Évaluation de circuits
Analyse et mesure des cartes

Pour vos développeurs/ingénieurs, nous offrons un service unique à travers le monde:
- Conseils et soutiens de nos ingénieurs
- Validation de votre circuit
- Échantillons pour pré-séries et prototypes
- Spécifications et tailles définies
- Modèles 3D de nos composants pour faciliter le design-in
- Simulations gratuites grâce à notre application
- Tests de différents paramètres de vos circuits finis

Votre bénéfice:
- Éviter des erreurs lors du choix du composant et de ses spécifications
- Réduction du temps de développement et de conception
- Amélioration de la sécurité de fonctionnement lors de la production en série
- Optimisation des coûts pour chaque composant
- Durée de vie optimale lors de la production en série

Nous vous offrons des conseils détaillés pour le design de nouveaux circuits, à travers:
- Exactitude de la fréquence pour la tension d'alimentation
- Exactitude de la fréquence par rapport à la plage de température
- Comportement de l'oscillation au démarrage pour différentes températures
- Sécurité du comportement d'oscillation au démarrage
- Consommation de courant
- Optimisation de Layout
- Choix de composants aux meilleurs prix

GEYER WORLDWIDE

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