Jauch®
THE PULSE OF PROGRESS

FREQUENCY CONTROL PRODUCTS

› Quartz Crystals
› Crystal Oscillators
› MEMS Oscillators

TECHNICAL SUPPORT FROM YOUR LOCAL JAUCH TEAM

Your local sales and technical teams will support you in finding the right frequency control product for you. We will offer advice from the beginning, allowing you to minimize your development times and cut unnecessary costs.

Talk to us about the optimal pulse solution as early as the design phase. We will help you through the project-specific preselection of suitable components and calculations for special applications.

- Creation of custom specifications for your project
- Reduced development time
- Avoidance of wrong decisions in component selection or specification
- Increased operational reliability in series production
- Cost-optimized component selection and specification for the entire project life

WORLDWIDE UNIQUE SERVICE FOR YOUR DEVELOPER

- Detailed advice and supervision by specialists
- In-house development center for frequency control products
- Validation of your circuit using special testing equipment
- Quick delivery service for programmable quartz and MEMS oscillators from pilot production and quartz products in standard frequencies
- Samples for pilot productions or prototypes

QUARTZ CRYSTALS – SMD

QUARTZ CRYSTAL • SMD • CERAMIC/METAL PACKAGE

	TYPE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY TOLERANCE*	FREQUENCY STABILITY*	L x W x H in mm
	JXS11	24.0 ~ 54.0 MHz	-40°C ~ +85°C	±10 ppm	±10 ppm	1.6 x 1.2 x 0.4
	JXS21	16.0 ~ 54.0 MHz	-40°C ~ +105°C	±10 ppm	±10 ppm	2.0 x 1.6 x 0.5
	JXS22	12.0 ~ 54.0 MHz	-40°C ~ +125°C	±10 ppm	±10 ppm	2.5 x 2.0 x 0.55
	JXS32	10.0 ~ 54.0 MHz	-40°C ~ +125°C	±10 ppm	±10 ppm	3.2 x 2.5 x 0.7
	JXS53	8.0 ~ 125.0 MHz	-40°C ~ +125°C	±10 ppm	±10 ppm	5.0 x 3.2 x 0.8
	JXS75	5. 5 ~ 170.0 MHz	-40°C ~ +85°C	±10 ppm	±10 ppm	7.0 x 5.0 x 1.0

QUARTZ CRYSTAL • SMD • CERAMIC PACKAGE

	TYPE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY TOLERANCE*	FREQUENCY STABILITY*	L x W x H in mm
	JXG32P4	12.0 ~ 50.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	3.2 x 2.5 x 1.0
	JXG53P4	8.0 ~ 60.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	5.0 x 3.2 x 1.5
	JXG53P2	8.0 ~ 60.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	5.0 x 3.2 x 1.5
	JXG75P4	5.0 ~ 70.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	7.0 x 5.0 x 1.8
	JXG75P2	5.0 ~ 70.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	7.0 x 5.0 x 1.8

QUARTZ CRYSTAL • SMD • METAL PACKAGE/MOLDED BASE

	TYPE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY TOLERANCE*	FREQUENCY STABILITY*	L x W x H in mm
	SMU2	4.0 ~ 33.0 MHz	-40°C ~ +125°C	±20 ppm	±20 ppm	11.5 x 4.8 x 3.0
	SMU3	3.2768 ~ 33.0 MHz	-40°C ~ +125°C	±20 ppm	±20 ppm	11.5 x 4.8 x 4.0
	SMU4	3.2768 ~ 33.0 MHz	-40°C ~ +85°C	±20 ppm	±20 ppm	11.5 x 4.8 x 4.0
	SMU5	3.2768 ~ 33.0 MHz	-40°C ~ +125°C	±20 ppm	±20 ppm	13.1 x 5.0 x 5.0

* Please note: best frequency stability is not always available in max. temperature range.
Full data can be found online. All specifications are subject to change without notice.

QUARTZ CRYSTALS – PIN TYPE AND SMD

QUARTZ CRYSTAL • PIN TYPE • METAL PACKAGE

	TYPE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY TOLERANCE*	FREQUENCY STABILITY*	L x W x H in mm
	SS2	4.0 ~ 33.0 MHz	-40°C ~ +125°C	±20 ppm	±20 ppm	11.3 x 4.7 x 2.5
	SS3	3.2768 ~ 33.0 MHz	-40°C ~ +125°C	±20 ppm	±20 ppm	11.3 x 4.7 x 3.6
	SS4	3.2768 ~ 33.0 MHz	-40°C ~ +85°C	±20 ppm	±20 ppm	11.3 x 4.7 x 3.6
	HC49/U	1.843 ~ 250.0 MHz	-40°C ~ +125°C	±3 ppm	±3 ppm	10.8 x 4.5 x 13.0
	HC49/U-SMC	1.843 ~ 250.0 MHz	-40°C ~ +125°C	±3 ppm	±3 ppm	17.5 x 10.8 x 5.3
	MQ1	0.921 ~ 250.0 MHz	-40°C ~ +125°C	±5 ppm	±3 ppm	7.9 x 3.3 x 8.0
	MQ1-SMC	0.921 ~ 250.0 MHz	-40°C ~ +125°C	±5 ppm	±3 ppm	11.7 x 7.8 x 3.4
	MQ5	10.0 ~ 250.0 MHz	-40°C ~ +125°C	±5 ppm	±3 ppm	7.7 x 3.1 x 5.8
	MQ5-SMC	10.0 ~ 250.0 MHz	-40°C ~ +125°C	±5 ppm	±3 ppm	9.7 x 7.7 x 3.4

TUNING FORK CRYSTAL • SMD

	TYPE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY TOLERANCE*	FREQUENCY STABILITY*	L x W x H in mm
	JTX110	32.7680 kHz	-40°C ~ +85°C	±20 ppm	-80 ppm	1.6 x 1.0 x 0.5
	JTX210	32.7680 kHz	-40°C ~ +85°C	±20 ppm	-80 ppm	2.0 x 1.2 x 0.6
	JTX310	32.7680 kHz	-40°C ~ +125°C	±10 ppm	-80 ppm	3.2 x 1.5 x 0.9
	SMQ32SN	32.7680 kHz	-40°C ~ +85°C	±20 ppm	-80 ppm	7.0 x 1.5 x 1.3
	SMQ32SL	32.7680 kHz	-40°C ~ +125°C	±10 ppm	-80 ppm	8.0 x 3.8 x 2.4
	SM26F	32.7680 kHz	-40°C ~ +85°C	±20 ppm	-80 ppm	6.0 x 2.0 x 2.0

TUNING FORK CRYSTAL • PIN TYPE

	TYPE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY TOLERANCE*	FREQUENCY STABILITY*	L x W x H in mm
	MMTF32	32.7680 kHz	-40°C ~ +85°C	±10 ppm	-80 ppm	2.0 x 2.0 x 6.0

* Please note: best frequency stability is not always available in max. temperature range.
Full data can be found online. All specifications are subject to change without notice.

QUARTZ CRYSTALS QUALIFIED TO AEC-Q200

QUARTZ CRYSTALS FOR AUTOMOTIVE APPLICATIONS

	TYPE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY TOLERANCE*	FREQUENCY STABILITY*	L x W x H in mm
	JXS21P4	16.0 ~ 40.0 MHz	-40°C ~ +125°C	±10 ppm	±15 ppm	2.0 x 1.6 x 0.55
	JXS22P4	12.0 ~ 40.0 MHz	-40°C ~ +125°C	±10 ppm	±15 ppm	2.5 x 2.0 x 0.6
	JXS32P4	10.0 ~ 54.0 MHz	-40°C ~ +125°C	±10 ppm	±15 ppm	3.2 x 2.5 x 0.7
	JXS53P4	8.0 ~ 56.0 MHz	-40°C ~ +125°C	±10 ppm	±15 ppm	5.0 x 3.2 x 0.8
	JXG32P4	12.0 ~ 50.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	3.2 x 2.5 x 1.0
	JXG53P2	8.0 ~ 60.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	5.0 x 3.2 x 1.5
	JXG53P4	8.0 ~ 60.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	5.0 x 3.2 x 1.5
	JXG75P2	5.0 ~ 70.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	7.0 x 5.0 x 1.8
	JXG75P4	5.0 ~ 70.0 MHz	-40°C ~ +125°C	±30 ppm	±30 ppm	7.0 x 5.0 x 1.8
	SMU2	4.0 ~ 33.0 MHz	-40°C ~ +125°C	±20 ppm	±30 ppm	11.5 x 4.8 x 3.0
	SMU3	3.276 ~ 33.0 MHz	-40°C ~ +125°C	±20 ppm	±20 ppm	11.5 x 4.8 x 4.0
	JTX310	32.7680 kHz	-40°C ~ +125°C	±20 ppm	-80 ppm	3.2 x 1.5 x 0.9

* Please note: best frequency stability is not always available in max. temperature range.
Full data can be found online. All specifications are subject to change without notice.

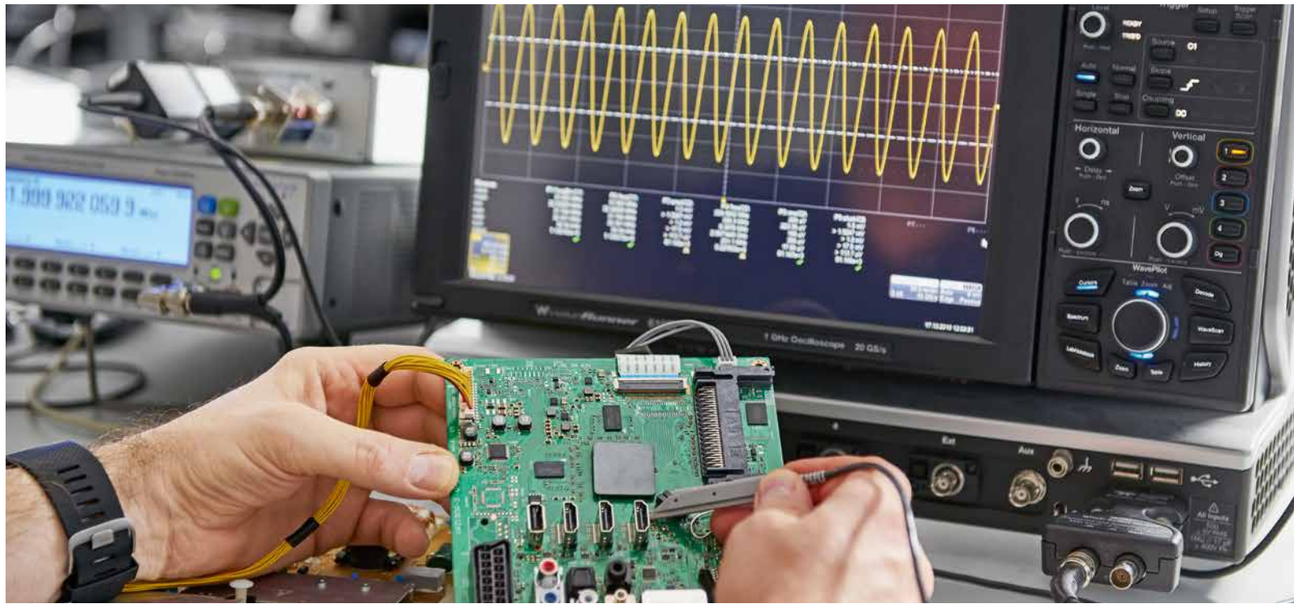
CUSTOMIZED QUARTZ CRYSTALS

› Extremely tight frequency stabilities › Special pulling sensitivities › Lowest ESR values

CUSTOMIZED QUARTZ CRYSTALS

	TYPE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY TOLERANCE*	FREQUENCY STABILITY*	L x W x H in mm
	HC49/U	2.4579 ~ 40.0 MHz (fund. AT) 20.0 ~ 105.0 MHz (3rd OT) 50.0 ~ 175.0 MHz (5th OT) 70.0 ~ 250.0 MHz (7th OT)	-40°C ~ +125°C	±3 ppm	±3 ppm	10.8 x 4.5 x 13.0
	HC49/U Middle Pin		-40°C ~ +125°C	±3 ppm	±3 ppm	10.8 x 4.5 x 13.0
	HC49/U SMC		-40°C ~ +125°C	±3 ppm	±3 ppm	17.5 x 10.8 x 5.3
	MQ1	4.0 ~ 40.0 MHz (fund. AT) 20.0 ~ 105.0 MHz (3rd OT) 50.0 ~ 175.0 MHz (5th OT) 70.0 ~ 250.0 MHz (7th OT)	-40°C ~ +125°C	±5 ppm	±3 ppm	7.9 x 3.3 x 8.0
	MQ1 Middle Pin		-40°C ~ +125°C	±5 ppm	±3 ppm	7.9 x 3.3 x 8.0
	MQ1-SMC		-40°C ~ +125°C	±5 ppm	±3 ppm	11.7 x 7.8 x 3.4
	MQ5	8.0 ~ 40.0 MHz (fund. AT) 20.0 ~ 105.0 MHz (3rd OT) 50.0 ~ 175.0 MHz (5th OT) 70.0 ~ 250.0 MHz (7th OT)	-40°C ~ +125°C	±5 ppm	±3 ppm	7.7 x 3.1 x 5.8
	MQ5-SMC		-40°C ~ +125°C	±5 ppm	±3 ppm	9.7 x 7.7 x 3.4

* Please note: best frequency stability is not always available in max. temperature range.
Full data can be found online. All specifications are subject to change without notice.



MEMS OSCILLATORS

JSOXX -LC SERIES • MEMS OSCILLATOR • HCMOS • SMD • PLASTIC MOLDED PACKAGE

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	EDGE CONTROL	L x W x H in mm
	JSO21 -LC (1.8V / 2.5V / 2.8V / 3.0V / 3.3V variable 2.5 ~ 3.3V)	Tristate Function or Stop Function	1.0 ~ 137.0 MHz	-55°C ~ +125°C	+/-20 ppm	Edge Control Feature, allows to adjust rising and falling edge for different load capacitance or to reduce EMI	2.0 x 1.6 x 0.75
	JSO22 -LC (1.8V / 2.5V / 2.8V / 3.0V / 3.3V variable 2.5 ~ 3.3V)	Tristate Function or Stop Function	1.0 ~ 137.0 MHz	-55°C ~ +125°C	+/-20 ppm		2.5 x 2.0 x 0.75
	JSO32 -LC (1.8V / 2.5V / 2.8V / 3.0V / 3.3V variable 2.5 ~ 3.3V)	Tristate Function or Stop Function	1.0 ~ 137.0 MHz	-55°C ~ +125°C	+/-20 ppm		3.2 x 2.5 x 0.75
	JSO53 -LC (1.8V / 2.5V / 2.8V / 3.0V / 3.3V variable 2.5 ~ 3.3V)	Tristate Function or Stop Function	1.0 ~ 137.0 MHz	-55°C ~ +125°C	+/-20 ppm		5.0 x 3.2 x 0.75
	JSO75 -LC (1.8V / 2.5V / 2.8V / 3.0V / 3.3V variable 2.5 ~ 3.3V)	Tristate Function or Stop Function	1.0 ~ 137.0 MHz	-55°C ~ +125°C	+/-20 ppm		7.0 x 5.0 x 0.90

JSO15 -TR • MEMS TCXO 32.768KHZ • HCMOS • SMD • CHIP SCALE PACKAGE (CSP)

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JSO15 -TR	Temperature Compensated	32.768 kHz	-40°C ~ +85°C	±10 ppm	15pF HCMOS	1.5 x 0.84 x 0.6

QUARTZ CRYSTAL OSCILLATORS – SMD

JO21 • OSCILLATOR • HCMOS • SMD • CERAMIC/METAL PACKAGE • 2.0 X 1.6 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JO21 (3.3 V)	Stop Function	1.625 ~ 54.0 MHz	-40°C ~ +85°C	±25 ppm	15 pF HCMOS	2.0 x 1.6 x 0.8
	JO21 (2.5 V)	Stop Function	1.625 ~ 54.0 MHz	-40°C ~ +85°C	±25 ppm	15 pF HCMOS	2.0 x 1.6 x 0.8
	JO21 (1.8 V)	Stop Function	1.625 ~ 54.0 MHz	-40°C ~ +85°C	±25 ppm	15 pF HCMOS	2.0 x 1.6 x 0.8

* Please note: best frequency stability is not always available in max. temperature range. Full data can be found online. All specifications are subject to change without notice.

JO22 • OSCILLATOR • HCMOS • SMD • CERAMIC/METAL PACKAGE • 2.5 X 2.0 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JO22 (3.3 V)	Stop Function	0.75 ~ 50.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF HCMOS	2.5 x 2.0 x 0.8
	JO22 (3.0 V)	Stop Function	0.75 ~ 50.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF HCMOS	2.5 x 2.0 x 0.8
	JO22 (2.8 V)	Stop Function	0.75 ~ 50.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF HCMOS	2.5 x 2.0 x 0.8
	JO22 (2.5 V)	Stop Function	0.75 ~ 50.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF HCMOS	2.5 x 2.0 x 0.8
	JO22 (1.8 V)	Stop Function	0.75 ~ 50.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF HCMOS	2.5 x 2.0 x 0.8
	JO22H (3.3 V)	High Stability Type Stop Function	4.0 ~ 54.0 MHz	-40°C ~ +85°C	±10 ppm	15 pF HCMOS	2.5 x 2.0 x 0.9
	JO22H (2.5 V)	High Stability Type Stop Function	4.0 ~ 54.0 MHz	-40°C ~ +85°C	±10 ppm	15 pF HCMOS	2.5 x 2.0 x 0.9
	JO22H (1.8 V)	High Stability Type Stop Function	9.5 ~ 54.0 MHz	-40°C ~ +85°C	±10 ppm	15 pF HCMOS	2.5 x 2.0 x 0.9

JO32 • OSCILLATOR • HCMOS • SMD • CERAMIC/METAL PACKAGE • 3.2 X 2.5 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JO32 (3.3 V)	Stop Function	0.75 ~ 80.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF / 30 pF HCMOS	3.2 x 2.5 x 1.1
	JO32 (3.0 V)	Stop Function	0.75 ~ 80.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF / 30 pF HCMOS	3.2 x 2.5 x 1.1
	JO32 (2.8 V)	Stop Function	0.75 ~ 80.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF / 30 pF HCMOS	3.2 x 2.5 x 1.1
	JO32 (2.5 V)	Stop Function	0.75 ~ 80.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF / 30 pF HCMOS	3.2 x 2.5 x 1.1
	JO32 (1.8 V)	Stop Function	0.75 ~ 80.0 MHz	-40°C ~ +105°C	±25 ppm	15 pF / 30 pF HCMOS	3.2 x 2.5 x 1.1
	JO32H (3.3 V)	High Stability Type Stop Function	2.50 ~ 60.0 MHz	-40°C ~ +105°C	±8 ppm	15 pF HCMOS	3.2 x 2.5 x 0.9
	JO32H (2.5 V)	High Stability Type Stop Function	2.50 ~ 60.0 MHz	-40°C ~ +105°C	±8 ppm	15 pF HCMOS	3.2 x 2.5 x 0.9
	JO32H (1.8 V)	High Stability Type Stop Function	2.50 ~ 60.0 MHz	-40°C ~ +105°C	±8 ppm	15 pF HCMOS	3.2 x 2.5 x 0.9

* Please note: best frequency stability is not always available in max. temperature range. Full data can be found online. All specifications are subject to change without notice.

JO53 • OSCILLATOR • HCMOS • SMD • CERAMIC/METAL PACKAGE • 5.0 X 3.2 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JO53 (5.0 V)	Stop Function	0.5 ~ 110.0 MHz	-40°C ~ +85°C	±20 ppm	15 pF / 30 pF HCMOS	5.0 x 3.2 x 1.4
	JO53 (3.3 V)	Stop Function	0.5 ~ 125.0 MHz	-40°C ~ +105°C	±20 ppm	15 pF / 30 pF HCMOS	5.0 x 3.2 x 1.4
	JO53 (3.0 V)	Stop Function	0.5 ~ 125.0 MHz	-40°C ~ +105°C	±20 ppm	15 pF / 30 pF HCMOS	5.0 x 3.2 x 1.4
	JO53 (2.8 V)	Stop Function	0.5 ~ 80.0 MHz	-40°C ~ +105°C	±20 ppm	15 pF / 30 pF HCMOS	5.0 x 3.2 x 1.4
	JO53 (2.5 V)	Stop Function	0.5 ~ 80.0 MHz	-40°C ~ +105°C	±20 ppm	15 pF / 30 pF HCMOS	5.0 x 3.2 x 1.4
	JO53 (1.8 V)	Stop Function	0.5 ~ 125.0 MHz	-40°C ~ +105°C	±20 ppm	15 pF / 30 pF HCMOS	5.0 x 3.2 x 1.4
	JO53H (3.3 V)	High Stability Type Stop Function	4.0 ~ 54.0 MHz	-40°C ~ +85°C	±8 ppm	15 pF HCMOS	5.0 x 3.2 x 1.1
	JO53H (2.5 V)	High Stability Type Stop Function	4.0 ~ 54.0 MHz	-40°C ~ +85°C	±8 ppm	15 pF HCMOS	5.0 x 3.2 x 1.1

JO75 • OSCILLATOR • HCMOS • SMD • CERAMIC/METAL PACKAGE • 7.0 X 5.0 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JO75 (5.0 V)	Tristate Function	1.8 ~ 107.0 MHz	-40°C ~ +85°C	±20 ppm	15 pF / 30 pF / 50 pF HCMOS	7.0 x 5.0 x 1.8
	JO75 (3.3 V)	Stop Function	1.0 ~ 170.0 MHz	-40°C ~ +85°C	±20 ppm	15 pF / 30 pF HCMOS	7.0 x 5.0 x 1.8
	JO75 (3.3 V)	Low Frequency Type Stop Function	0.012 ~ 1.0 MHz	-40°C ~ +85°C	±20 ppm	15 pF / 30 pF HCMOS	7.0 x 5.0 x 1.4
	JO75 (2.8 V)	Stop Function	0.5 ~ 165.0 MHz	-40°C ~ +85°C	±25 ppm	15 pF / 30 pF HCMOS	7.0 x 5.0 x 1.8
	JO75 (2.5 V)	Stop Function	0.5 ~ 165.0 MHz	-40°C ~ +85°C	±25 ppm	15 pF / 30 pF HCMOS	7.0 x 5.0 x 1.8
	JO75 (1.8 V)	Stop Function	0.5 ~ 160.0 MHz	-40°C ~ +85°C	±25 ppm	15 pF / 30 pF HCMOS	7.0 x 5.0 x 1.8

QUARTZ CRYSTAL OSCILLATORS – SMD

JVXX • VCXO • HCMOS • SMD • CERAMIC/METAL PACKAGE • 7.5 X 5.0 MM AND 5.0 X 3.2 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JV53 (3.3 V)	without Standby-Function	2.0 ~ 54.0 MHz	-40°C ~ +85°C	±25 ppm	15 pF HCMOS	5.0 x 3.2 x 1.0
	JV75 (5.0 V)	with Standby-Function	1.0 ~ 80.0 MHz	-40°C ~ +85°C	±25 ppm	15 pF HCMOS	7.5 x 5.0 x 1.8
	JV75 (3.3 V)	with Standby-Function	1.0 ~ 125.0 MHz	-40°C ~ +85°C	±25 ppm	15 pF HCMOS	7.5 x 5.0 x 1.8

* Please note: best frequency stability is not always available in max. temperature range.
Full data can be found online. All specifications are subject to change without notice.

(VC)TCXO • CLIPPED SINE • SMD • CERAMIC/METAL PACKAGE

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JT21x(V)	VCTCXO or TCXO	8.0 ~ 52.0 MHz	-30°C ~ +85°C	±1 ppm	10 KΩ // 10 pF › 0.8 Vpp / clipped sine	2.0 x 1.6 x 0.95
	JT22x(V)	VCTCXO or TCXO	8.0 ~ 52.0 MHz	-30°C ~ +85°C	±1 ppm	10 KΩ // 10 pF › 0.8 Vpp / clipped sine	2.5 x 2.0 x 0.95
	JT33(V)	VCTCXO or TCXO	8.0 ~ 52.0 MHz	-40°C ~ +85°C	±1 ppm	10 KΩ // 10 pF › 0.8 Vpp / clipped sine	3.2 x 2.5 x 1.0
	JT53L(V)	VCTCXO or TCXO	6.0 ~ 45.0 MHz	-40°C ~ +85°C	±1 ppm	10 KΩ // 10 pF › 0.8 Vpp / clipped sine	5.0 x 3.2 x 1.05

TCXO • HCMOS • SMD • CERAMIC/METAL PACKAGE

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JT22C 2.5 V / 2.8 V / 3.3 V	Stop Function	4.0 ~ 54.0 MHz	-40°C ~ +85°C	±2.5 ppm	15 pF HCMOS	2.5 x 2.0 x 0.9
	JT32C 2.5 V / 2.8 V / 3.3 V	Stop Function	4.0 ~ 54.0 MHz	-40°C ~ +85°C	±2.5 ppm	15 pF HCMOS	3.2 x 2.5 x 1.0
	JT53C 2.5 V / 2.8 V / 3.3 V	Stop Function	4.0 ~ 54.0 MHz	-40°C ~ +85°C	±2.5 ppm	15 pF HCMOS	5.0 x 3.2 x 1.1

OSCILLATOR • PECL • SMD • CERAMIC/METAL PACKAGE • 7.5 X 5.2 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JOE75 (3.3 V)	PECL XO	40.0 ~ 270.0 MHz	-40°C ~ +85°C	±25 ppm	50 Ω at 1.3 V	7.5 x 5.2 x 1.65
	JOE75 (2.5 V)	PECL XO	40.0 ~ 270.0 MHz	-40°C ~ +85°C	±25 ppm	50 Ω at 0.5 V	7.5 x 5.2 x 1.65

QUARTZ CRYSTAL OSCILLATORS – SMD

VCXO • PECL • SMD • CERAMIC/METAL PACKAGE • 7.5 X 5.0 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JVE75A (3.3 V)	PECL VCXO MESA technology	50.0 ~ 700.0 MHz	-40°C ~ +85°C	±25 ppm	50 Ω at 1.3 V	7.5 x 5.0 x 1.6
	JVE75B (3.3 V)	PECL VCXO	12.0 ~ 800.0 MHz	-40°C ~ +85°C	±25 ppm	50 Ω at 1.3 V	7.5 x 5.0 x 1.6

OSCILLATOR • LVDS • SMD • CERAMIC/METAL PACKAGE • 7.5 X 5.2 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JOD75 2.5 V / 3.3 V	LVDS XO	75.0 ~ 270.0 MHz	-40°C ~ +85°C	±25 ppm	100 Ω differential 0.35 Vp-p min. (3.3V)	7.5 x 5.2 x 1.65

* Please note: best frequency stability is not always available in max. temperature range. Full data can be found online. All specifications are subject to change without notice.

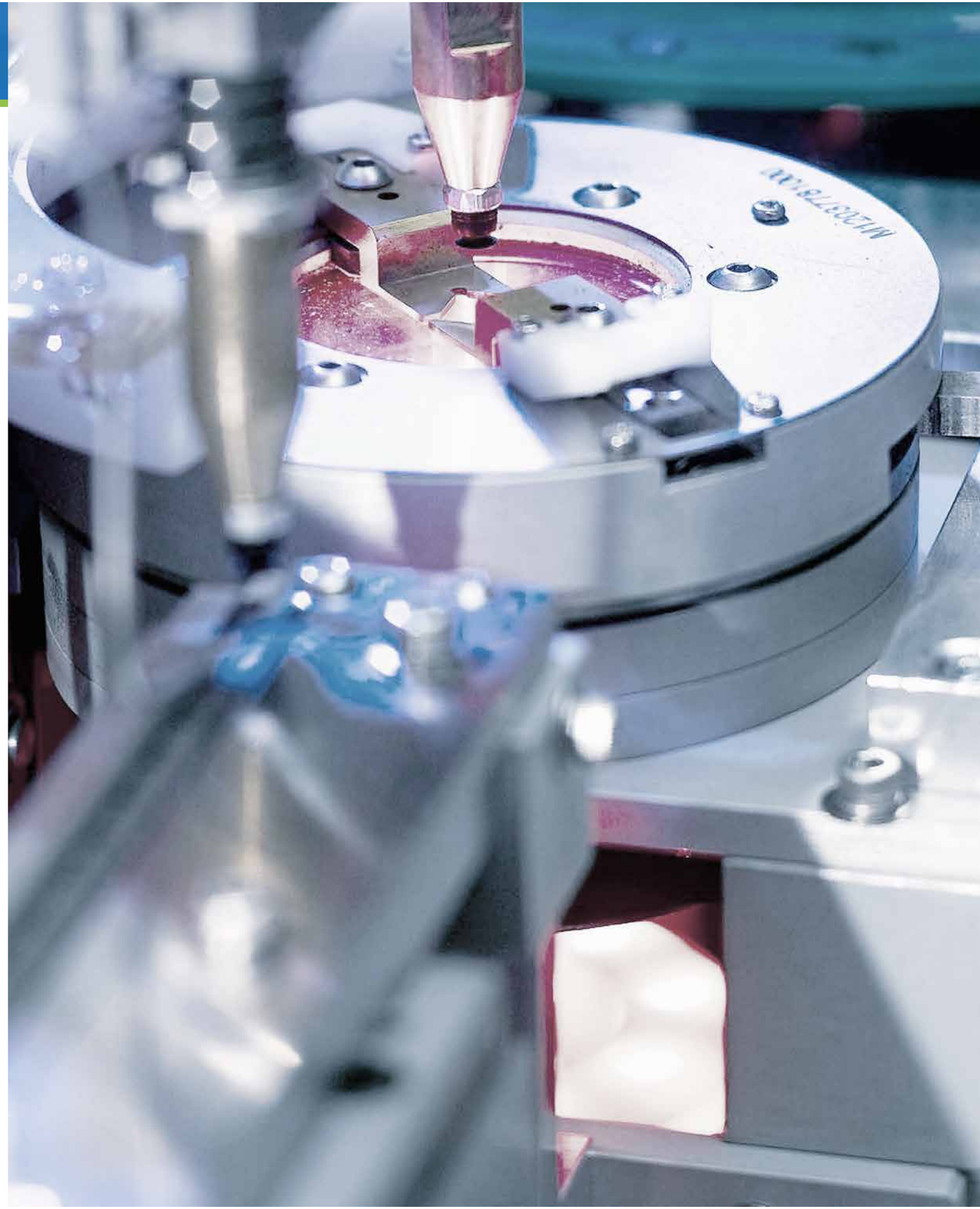
VCXO • LVDS • SMD • CERAMIC/METAL PACKAGE • 7.5 X 5.0 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JVD75A (3.3 V)	LVDS VCXO MESA technology	50.0 ~ 700.0 MHz	-40°C~+85°C	±25 ppm	100 Ω differential 0.35 Vp-p min.	7.5 x 5.0 x 1.6
	JVD75B (3.3 V)	LVDS VCXO	12.0 ~ 800.0 MHz	-40°C~+85°C	±25 ppm	100 Ω differential 0.35 Vp-p min.	7.5 x 5.0 x 1.6

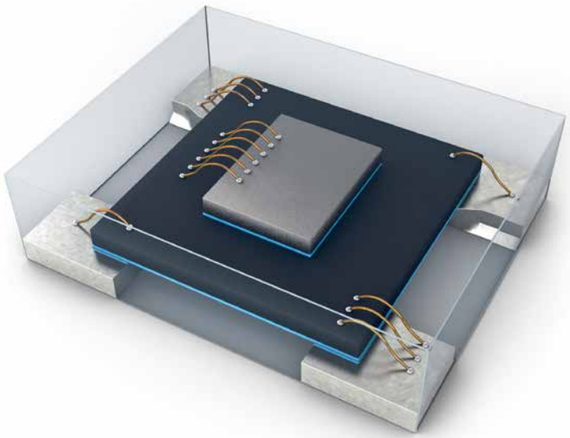
TUNING FORK OSCILLATOR • 32.768 KHZ • SMD • CERAMIC/METAL PACKAGE • 3.2 X 2.5 MM

	TYPE	FEATURE	FREQUENCY RANGE	TEMPERATURE RANGE (max.)*	FREQUENCY STABILITY*	LOAD	L x W x H in mm
	JRO32	uses Tuning Fork Crystal	32.768 kHz	-40°C~+85°C	-80 ppm -160 ppm	15pF HCMOS	3.2 x 2.5 x 1.0

* Please note: best frequency stability is not always available in max. temperature range. Full data can be found online. All specifications are subject to change without notice.

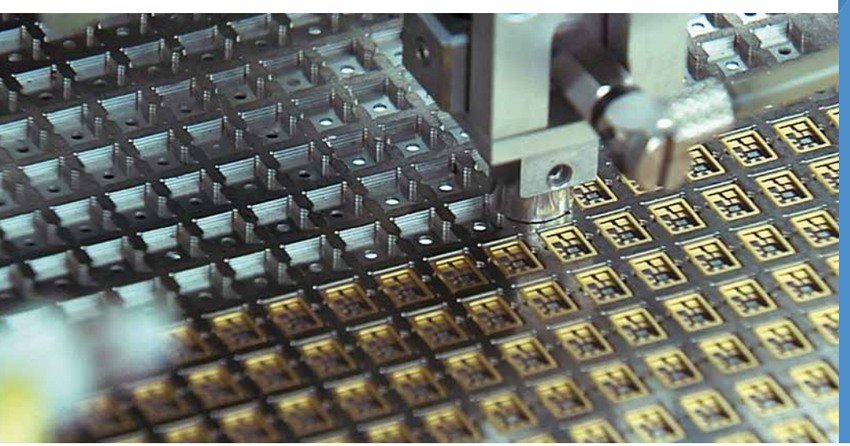


From frequency control products for standard applications to highly stable, shock-resistant components – Jauch products operate reliably in your applications. We ensure this with our quality assurance, which starts even before production does.



“MADE IN GERMANY” JAUCH QUALITY

The specialists at Jauch accompany your projects from sample production to series production. To fulfill our claim to provide “Made in Germany” quality, we look after production ourselves. We have our own production facility at our headquarters in Germany, as well as production facilities in Asia. An in-house testing laboratory with reliable measuring equipment also allows us to perform AEC-Q200 testing for automotive applications. Regular training of our employees in all countries is an integral part of our quality system.



JAUCH QUALITY ASSURANCE

- ISO 9001:2008, ISO TS 16949 and ISO 14001 certification
- Internal audit procedures
- Audits at production facilities
- Supplier audits
- Key figure determination
- Components qualification
- Determining the reliability figures of specific components
- Product verification according to RoHS and REACH
- Components inspection
- Incoming and outgoing goods inspection
- Calibration

Experience, market knowledge and industry expertise are also reflected in Europe's largest warehouse for frequency control components.

MEMS – Samples

One special service we offer is our MEMS sample ordering. We configure the MEMS oscillators according to your requirements and can ship within 48 hours.

RELIABLY AVAILABLE – WORLDWIDE

Jauch maintains a worldwide network of distribution offices with competent contacts. This allows us to deliver international solutions along with the usual Jauch quality: from providing advice prior to a decision about components to processing the order through to logistics.

In Europe, we have our own offices in Germany, France and the UK. Another office in the US ensures our presence in the North and South American markets.

- Europe's largest warehouse for frequency control components
- Known consignor
- Modern transport and logistics solutions

RELIABLE AND SAFE: FREQUENCY PRODUCTS AND BATTERY SOLUTIONS FROM JAUCH

ABOUT JAUCH

The Jauch Group is one of the leading specialists for quartz crystals, crystal oscilllators, MEMS oscillators and battery technology. Established in 1954, we are a leading company in the frequency control products industry, and have recently added MEMS timing oscillators to our range. We are also a recognized expert for lithium ion and lithium polymer battery solutions.

With our in-depth technical consulting, certification expertise and advanced test environments, we are able to underline our claim to leadership.

Along with our subsidiaries in France, Great Britain and America, we are able to develop and provide pioneering technology solutions.

Frequency Control and Battery Technology

Jauch®
THE PULSE OF PROGRESS

GM69 | 11.2016

Jauch Quartz GmbH
78056 Villingen-Schwenningen
Germany
info@jauch.de
www.jauch.de

Jauch Quartz France
92100 Boulogne-Billancourt
France
info@jauch.fr
www.jauch.fr

Jauch Quartz America, Inc.
Seabeck, WA 98380
USA
info@jauchusa.com
www.jauchusa.com

Jauch Quartz UK Ltd.
Camberley, Surrey, GU15 3YX
United Kingdom
info@jauch.co.uk
www.jauch.co.uk

www.jauch.de