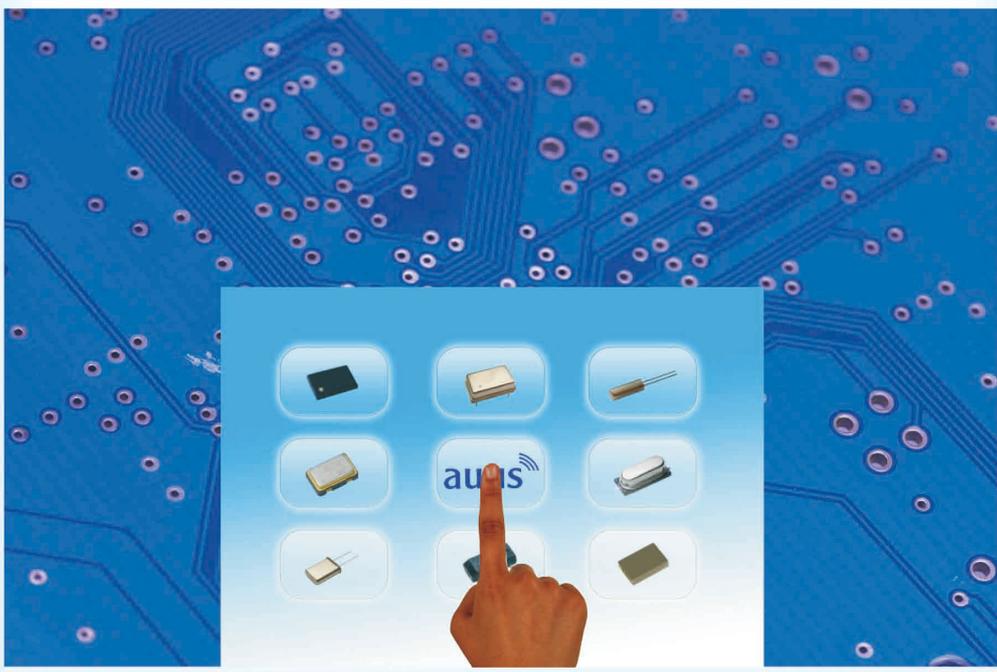


New version

auris[®]



QUARTZ

OSCILLATOR

PRODUCTS
&
COMPONENTS

auris-GmbH is a supplier of crystals, oscillators, filters, resonators and SAWs. Founded in 2000 in Germany, auris-GmbH began by supplying the European market with thru-hole crystals and oscillators. Today we are known world-wide for high quality and offering some of the world's smallest quartz crystals and oscillators.

Our company is certified "ISO9001:2015" by 3cert GmbH.

Manufacturing facilities in China, Taiwan and Hong Kong, use state-of-the art technology to produce large volume of quartz resonators of different shapes and functions. The production facilities are ISO 9001, ISO 14001 and ISO/TS 16949 certified by SGS systems. All crystals and oscillators are fully compliant with RoHS regulations (version 2011/65/EU).

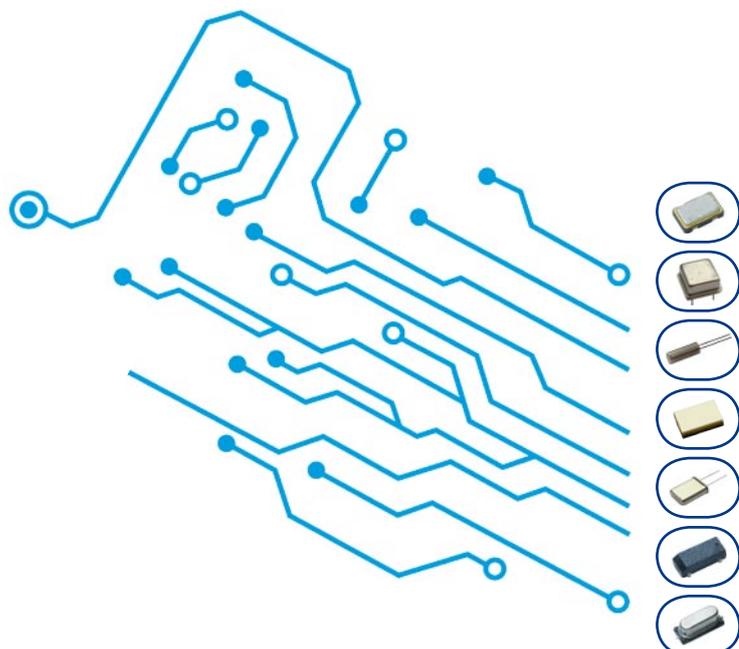
This short form brochure shows our wide range of innovative products and technical competence for all industrial and commercial applications.

Our customer service center offers:

- design-in support, with workbench collaboration
- comprehensive technical advice
- fast and cost-effective development of customized solutions
- testing, analysis and optimization of customized circuits
- project monitoring from initial evaluation to production

- Your satisfaction with auris products is our goal -

Your team from



Tuning Fork Quartz – Metal Package

Pin Type Thru Hole

TC155

Frequency range	32.768kHz 30 ~ 200kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	7pF/12.5pF	
Temperature coefficient	-0.034±0.006ppm/°C ²	
Operating temperature	-10°C ~ +60°C/-40°C ~ +85°C	
Dimensions	1.5x5.0mm	

TC26

Frequency range	32.768kHz 30 ~ 200kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	6pF/10pF/12.5pF	
Temperature coefficient	-0.034±0.006ppm/°C ²	
Operating temperature	-10°C ~ +60°C/-40°C ~ +85°C	
Dimensions	2.0x6.0mm	

TC38

Frequency range	32.768kHz 30 ~ 200kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	6pF/10pF/12.5pF	
Temperature coefficient	-0.034±0.006ppm/°C ²	
Operating temperature	-10°C ~ +60°C/-40°C ~ +85°C	
Dimensions	3.0x8.0mm	

SMD

TC206B

Frequency range	32.768kHz 30 ~ 200kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	6pF/10pF/12.5pF	
Temperature coefficient	-0.034±0.006ppm/°C ²	
Operating temperature	-10°C ~ +60°C/-40°C ~ +85°C	
Dimensions	2.0x6.0mm	

Tuning Fork Quartz – SMD Package

SMD Plastic

MP6914

Frequency range	32.768kHz	
Tolerance (25°C)	±20ppm	
Load capacitance	7pF/9pF/12.5pF	
Temperature coefficient	-0.034±0.006ppm/°C ²	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Dimensions	6.9x1.4x1.3mm	

MP03

Frequency range	32.768kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	6pF/9pF/12.5pF	
Temperature coefficient	-0.034±0.006ppm/°C ²	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Dimensions	8.0x3.8x2.5mm	

Tuning Fork Quartz – SMD Package

SMD Ceramic

LC1210

	(under development)	
Frequency range	32.768kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	7pF/9pF/12.5pF	
Temperature coefficient	-0.045ppm/°C ² max.	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Dimensions	1.2x1.0x0.35mm	

LC1610

Frequency range	32.768kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	9pF/12.5pF	
Temperature coefficient	-0.045ppm/°C ² max.	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Dimensions	1.6x1.0x0.5mm	

LC2012

Frequency range	32.768kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	7pF/9pF/12.5pF	
Temperature coefficient	-0.045ppm/°C ² max.	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Dimensions	2.0x1.2x0.6mm	

LM3215

Frequency range	32.768kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
ESR	50k/70kOhm max.	
Load capacitance	7pF/9pF/12.5pF	
Temperature coefficient	-0.045ppm/°C ² max.	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Dimensions	3.2x1.5x0.9mm	

LC4115

Frequency range	32.768kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	12.5pF	
Temperature coefficient	-0.034±0.006ppm/°C ²	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Dimensions	4.1x1.5x0.9mm	

LC4918

Frequency range	32.768kHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Load capacitance	7pF/12.5pF	
Temperature coefficient	-0.034±0.006ppm/°C ²	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Dimensions	4.9x1.8x1.0mm	

Quartz – Metal Package

Pin Type Thru Hole

HF26 / HF38

Frequency range 6.00 ~ 48.00MHz
 Tolerance (25°C) $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Load capacitance 10pF ~ series
 Dimensions 2.1x6.2mm/3.1x8.3mm



HF39

Frequency range 4.00 ~ 6.00MHz
 Tolerance (25°C) $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Load capacitance 10pF ~ series
 Dimensions 3.1x9.3mm



HF310

Frequency range 3.579 ~ 4.00MHz
 Tolerance (25°C) $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Load capacitance 10pF ~ series
 Dimensions 3.1x10.3mm



HC49U

Frequency range 1.8432 ~ 180.00MHz
 Tolerance (25°C) $\pm 5\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 5\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +105^\circ\text{C}$
 Load capacitance 5pF ~ series
 Dimensions 13.46x11.05x5.0mm



HC49US

Frequency range 3.2768 ~ 90.00MHz
 Tolerance (25°C) $\pm 5\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 150\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +125^\circ\text{C}$
 Load capacitance 5pF ~ series
 Dimensions 11.1x4.7x2.5(low)/3.5mm



UM1

Frequency range 6.00 ~ 160.00MHz
 Tolerance (25°C) $\pm 5\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Load capacitance 5pF ~ series
 Dimensions 7.8x3.2x8.0mm



UM5

Frequency range 8.00 ~ 200.00MHz
 Tolerance (25°C) $\pm 5\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Load capacitance 5pF ~ series
 Dimensions 7.9x3.2x6.0mm



SMD

HC49S7S

Frequency range 8.00 ~ 50.00MHz
 Tolerance (25°C) $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Load capacitance 5pF ~ series
 Dimensions 7.6x4.0x2.0mm



HC49S8S

Frequency range 8.00 ~ 50.00MHz
 Tolerance (25°C) $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Load capacitance 5pF ~ series
 Dimensions 8.4x3.0x2.0mm



HC49USSMD

Frequency range 3.2768 ~ 90.00MHz
 Tolerance (25°C) $\pm 5\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 150\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +125^\circ\text{C}$
 Load capacitance 5pF ~ series
 Dimensions 13.0x4.8x4.5/3.2/3.0mm/max.



HC49J

Frequency range 3.50 ~ 80.00MHz
 Tolerance (25°C) $\pm 10\text{ppm} \sim \pm 50\text{ppm}$
 Tolerance vs. temperature $\pm 10\text{ppm} \sim \pm 150\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +125^\circ\text{C}$
 Load capacitance 10pF ~ series
 Dimensions 13.2x4.9x5.1mm/max.



Quartz SMD – Ceramic Package

SMD Ceramic Enclosure

SMD All Ceramic

HC1612 (4 Pad)

Frequency range	24.00 ~ 80.00MHz	
Tolerance (25°C)	±10ppm ~ ±50ppm	
Tolerance vs. temperature	±10ppm ~ ±50ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Load capacitance	8pF ~ series	
Dimensions	1.6x1.2x0.4mm	

AC3225H (4 Pad)

Frequency range	12.00 ~ 48.00MHz	
Tolerance (25°C)	±10ppm ~ ±50ppm	
Tolerance vs. temperature	±10ppm ~ ±50ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Load capacitance	8pF ~ series	
Dimensions	3.2x2.5x0.8mm	

HC2016 (4 Pad)

Frequency range	16.00 ~ 72.00MHz	
Tolerance (25°C)	±10ppm ~ ±50ppm	
Tolerance vs. temperature	±10ppm ~ ±50ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Load capacitance	8pF ~ series	
Dimensions	2.0x1.6x0.5mm	

AC3225 (4 Pad)

Frequency range	12.00 ~ 48.00MHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Tolerance vs. temperature	±20ppm ~ ±50ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Load capacitance	8pF ~ series	
Dimensions	3.2x2.5x1.1mm	

HC2520 (4 Pad)

Frequency range	16.00 ~ 80.00MHz	
Tolerance (25°C)	±10ppm ~ ±50ppm	
Tolerance vs. temperature	±10ppm ~ ±100ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +125°C	
Load capacitance	8pF ~ series	
Dimensions	2.5x2.0x0.6mm	

AC5032 (2/4 Pad)

Frequency range	8.00 ~ 48.00MHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Tolerance vs. temperature	±20ppm ~ ±50ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Load capacitance	8pF ~ series	
Dimensions	5.0x3.2x1.1mm	

HC3225 (4 Pad)

Frequency range	8.00 ~ 156.00MHz	
Tolerance (25°C)	±10ppm ~ ±50ppm	
Tolerance vs. temperature	±10ppm ~ ±100ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +125°C	
Load capacitance	8pF ~ series	
Dimensions	3.2x2.5x0.8mm	

AC1045 (2/4 Pad)

Frequency range	3.2768 ~ 7.00MHz	
Tolerance (25°C)	±20ppm ~ ±50ppm	
Tolerance vs. temperature	±20ppm ~ ±50ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Load capacitance	10pF ~ series	
Dimensions	10.0x4.5x1.4mm	

HC5032 (2/4 Pad)

Frequency range	7.60 ~ 156.00MHz	
Tolerance (25°C)	±10ppm ~ ±50ppm	
Tolerance vs. temperature	±10ppm ~ ±100ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +125°C	
Load capacitance	8pF ~ series	
Dimensions	5.0x3.2x1.1mm	

SMD Ceramic & Metal

CM2016 (4 Pad)

Frequency range	24.00 ~ 48.00MHz	
Tolerance (25°C)	±10ppm ~ ±20ppm	
Tolerance vs. temperature	±10ppm ~ ±20ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Load capacitance	6pF ~ series	
Dimensions	2.0x1.6x0.7mm	

HC6035 (2/4 Pad)

Frequency range	7.00 ~ 200.00MHz	
Tolerance (25°C)	±5ppm ~ ±50ppm	
Tolerance vs. temperature	±10ppm ~ ±50ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Load capacitance	8pF ~ series	
Dimensions	6.0x3.5x1.1mm	

HC7050 (4 Pad)

Frequency range	6.00 ~ 125.00MHz	
Tolerance (25°C)	±10ppm ~ ±50ppm	
Tolerance vs. temperature	±10ppm ~ ±100ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +105°C	
Load capacitance	8pF ~ series	
Dimensions	7.0x5.0x1.0mm	

Quartz Oscillator Metal Package, Pin Thru Hole

AQO14

Frequency range	1.00 ~ 180.00MHz	
Frequency stability	±25ppm, ±50ppm or ±100ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Input voltage	3.3V or 5.0V	
Output	CMOS / 15pF ~ 50pF	
Dimensions	20.4x13.1x5.3mm (>80MHz 7,7mm)	

AQO08

Frequency range	1.00 ~ 180.00MHz	
Frequency stability	±25ppm, ±50ppm or ±100ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Input voltage	3.3V or 5.0V	
Output	CMOS / 15pF ~ 50pF	
Dimensions	12.9x12.9x5.3mm (>80MHz 7,7mm)	

Quartz Oscillator, SMD

Clock Type, 32.768kHz, CMOS

AQO1612 Clock

Frequency range	(under development)	
Frequency range	32.768kHz	
Frequency stability	±20ppm ~ ±100ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Input voltage	1.8V ~ 3.3V	
Dimensions	1.6x1.2x0.6mm	

AQO2016 Clock

Frequency range	32.768kHz	
Frequency stability	±20ppm ~ ±100ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Input voltage	1.8V ~ 5.0V	
Dimensions	2.0x1.6x0.8mm	

AQO2520 Clock

Frequency range	32.768kHz	
Frequency stability	±20ppm ~ ±100ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Input voltage	1.8V ~ 5.0V	
Dimensions	2.5x2.0x1.0mm	

AQO3225 Clock

Frequency range	32.768kHz	
Frequency stability	±20ppm ~ ±100ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Input voltage	1.8V ~ 5.0V	
Dimensions	3.2x2.5x1.2mm	

AQO5032 Clock

Frequency range	32.768kHz	
Frequency stability	±20ppm ~ ±100ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Input voltage	1.8V ~ 5.0V	
Dimensions	5.0x3.2x1.3mm	

AQO7050 Clock

Frequency range	32.768kHz	
Frequency stability	±20ppm ~ ±100ppm	
Operating temperature	-20°C ~ +70°C/-40°C ~ +85°C	
Input voltage	1.8V ~ 5.0V	
Dimensions	7.0x5.0x1.4mm	



Programming service

For developers it is often very important to have quick access to required oscillators. In most cases, patterns are available relatively quickly, but sometimes it must go even faster

Here, the auris-GmbH offers the programming service for oscillators. Blanks in various housing sizes are available in stock.

- Advantages:**
- Extremely short delivery time of a few days
 - Minimal quantities (from 5 pieces)
 - Individually programmable oscillators according to customer specification
 - Various housing sizes

Programmable Oscillator

APQO5032 / 7050

Frequency range	1.00 ~ 133.00MHz	
Frequency stability	±25ppm ~ ±100ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Input voltage	5.0V (1~133MHz), 3.3V (1~100MHz)	
Output	CMOS / 15pF ~ 50pF	
Dimensions	5.0x3.2x1.2mm/7.0x5.0x1.7mm	

Spread Spectrum Clock Oscillator

ASSO5032 / 7050

Frequency range	13.00 ~ 160.00MHz	
Frequency stability	±20ppm ~ ±100ppm	
Operating temperature	0°C ~ +70°C/-40°C ~ +85°C	
Input voltage	2.5V ~ 3.3V	
Output	CMOS / 15pF	
Dimensions	5.0x3.2x1.3mm/7.0x5.0x1.4mm	

Quartz Oscillator, SMD

Quartz Oscillator – Ceramic Package

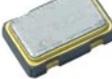
CMOS

AQO1612 (under development) 
 Frequency range 1.25 ~ 80.00MHz
 Frequency stability $\pm 20\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 1.8V ~ 3.3V
 Dimensions 1.6x1.2x0.6mm

AQO2016 
 Frequency range 1.25 ~ 100.00MHz
 Frequency stability $\pm 20\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 0.8V ~ 3.3V
 Dimensions 2.0x1.6x0.8mm

AQO2520 
 Frequency range 1.00 ~ 160.00MHz
 Frequency stability $\pm 10\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 0.8V ~ 5.0V
 Dimensions 2.5x2.0x1.0mm

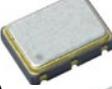
AQO3225 
 Frequency range 1.00 ~ 160.00MHz
 Frequency stability $\pm 10\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 0.8V ~ 5.0V
 Dimensions 3.2x2.5x1.2mm

AQO5032 
 Frequency range 1.00 ~ 160.00MHz
 Frequency stability $\pm 10\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 0.8V ~ 5.0V
 Dimensions 5.0x3.2x1.3mm

AQO7050 
 Frequency range 1.00 ~ 160.00MHz
 Frequency stability $\pm 10\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 0.8V ~ 5.0V
 Dimensions 7.0x5.0x1.4mm

LVPECL/LVDS

AQO2520 / 3225 LVPECL/LVDS (6 Pad) 
 Frequency range 13.50 ~ 156.25MHz
 Frequency stability $\pm 20\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 1.8V ~ 3.3V
 Dimensions 2.5x2.0x1.1mm/3.2x2.5x1.2mm

AQO5032 / 7050 LVPECL/LVDS (6 Pad) 
 Frequency range 13.50 ~ 212.50MHz
 Frequency stability $\pm 20\text{ppm} \sim \pm 50\text{ppm}$
 Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 1.8V ~ 3.3V
 Dimensions 5.0x3.2x1.3mm/7.0x5.0x1.6mm

Temperature-compensated Quartz Oscillator

ATCQO2016

Frequency range 13.00 ~ 52.00MHz 
 Frequency stability $\pm 0.5\text{ppm} \sim \pm 2.5\text{ppm}$
 Operating temperature $-30^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 1.8V, 2.5V, 3V
 Output signal Clipped sine
 Dimensions 2.0x1.6x0.8mm

ATCQO2520

Frequency range 2.50 ~ 54.00MHz 
 Frequency stability $\pm 0.5\text{ppm} \sim \pm 2.5\text{ppm}$
 Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 1.8V, 2.0V, 2.5V, 2.8V, 3V, 3.3V
 Output signal Clipped sine/CMOS
 Dimensions 2.5x2.0x1.0mm

ATCQO3225 / 5032

Frequency range 2.50 ~ 54.00MHz 
 Frequency stability $\pm 0.5\text{ppm} \sim \pm 2.5\text{ppm}$
 Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 1.8V, 2.0V, 2.5V, 2.8V, 3V, 3.3V
 Output signal Clipped sine/CMOS
 Dimensions 3.2x2.5x1.0mm/5.0x3.2x1.5mm

ATCQO7050

Frequency range 10.00 ~ 52.00MHz 
 Frequency stability $\pm 0.5\text{ppm} \sim \pm 2.5\text{ppm}$
 Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 1.8V, 3.3V
 Output signal Clipped sine/CMOS
 Dimensions 7.0x5.0x1.4mm

Voltage-controlled Quartz Oscillator

CMOS

AVCQO2520 (4 Pad)

Frequency range 1.25 ~ 62.00MHz 
 Frequency stability $\pm 20\text{ppm} \sim \pm 50\text{ppm}$
 Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 3.3V
 Dimensions 2.5x2.0x1mm

AVCQO3225 (4/6 Pad)

Frequency range 1.00 ~ 54.00MHz 
 Frequency stability $\pm 25\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +125^\circ\text{C}$
 Input voltage 1.8V, 2.8V, 3.3V, 5.0V
 Dimensions 3.2x2.5x1.2mm

AVCQO5032 (4/6 Pad)

Frequency range 1.00 ~ 54.00MHz 
 Frequency stability $\pm 25\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +125^\circ\text{C}$
 Input voltage 1.8V, 2.8V, 3.3V, 5.0V
 Dimensions 5.0x3.2x1.3mm

AVCQO7050 (4/6 Pad)

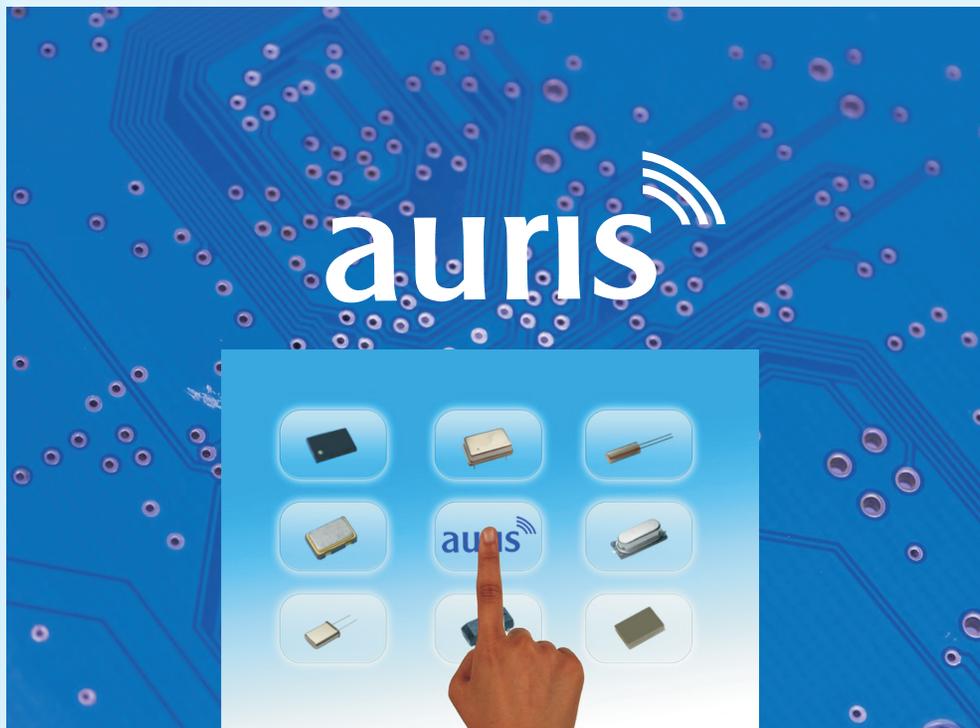
Frequency range 1.00 ~ 54.00MHz 
 Frequency stability $\pm 25\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $-20^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +125^\circ\text{C}$
 Input voltage 1.8V, 2.8V, 3.3V, 5.0V
 Dimensions 7.0x5.0x1.8mm

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