

auris[®]



Your satisfaction with auris products is our goal.

**CRYSTALS &
OSCILLATORS**



NEW VERSION

**PRODUCTS &
COMPONENTS**

auris-GmbH is a supplier of crystals, oscillators, resonators and SAWs. Founded in 2000 in Germany, auris-GmbH began by supplying the European market with through-hole crystals and oscillators. Today we are known worldwide 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 quantities 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 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 – Pin Through Hole

Metal Package

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	

Tuning Fork Quartz – SMD Package

SMD Metal

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	

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 Through 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



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



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 6pF ~ 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 ~ +105°C
 Load capacitance 6pF ~ 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 12.00 ~ 80.00MHz
 Tolerance (25°C) ±10ppm ~ ±50ppm
 Tolerance vs. temperature ±10ppm ~ ±100ppm
 Operating temperature 0°C ~ +70°C/-40°C ~ +125°C
 Load capacitance 6pF ~ series
 Dimensions 2.5x2.0x0.6mm



AC5032 (2 Pad / 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 6pF ~ series
 Dimensions 3.2x2.5x0.8mm



AC1045 (2 Pad / 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 Pad / 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 Pad / 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 Through 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, 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, 5.0V	
Output	CMOS / 15pF ~ 50pF	
Dimensions	12.9x12.9x5.3mm (>80MHz 7,7mm)	

Quartz Oscillator – SMD Package

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 important to have quick access to required oscillators. In most cases, patterns are available relatively quickly, but sometimes it has to go even faster...

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

- Advantages:**
- extremely short delivery time of a few days
 - minimal quantities (from five pieces)
 - individually programmable oscillators according to customer specification
 - various package 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 Package

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

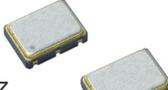
AQO2520 
 Frequency range 1.00 ~ 160.00MHz
 Frequency stability $\pm 10\text{ppm} \sim \pm 100\text{ppm}$
 Operating temperature $0^\circ\text{C} \sim +70^\circ\text{C}/-40^\circ\text{C} \sim +85^\circ\text{C}$
 Input voltage 0.8V ~ 5.0V
 Dimensions 2.5x2.0x1.0mm

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, 3.0V
 Output signal Clipped sine
 Dimensions 2.0x1.6x0.8mm

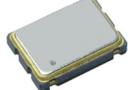
ATCQO2520

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, 3.0V, 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, 3.0V, 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 Pad / 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 Pad / 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 Pad / 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

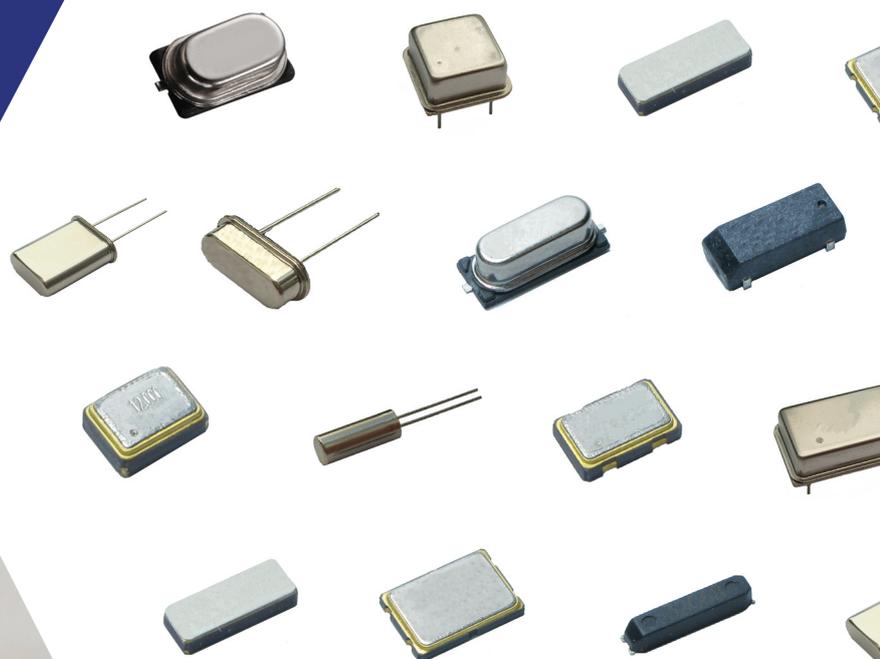
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