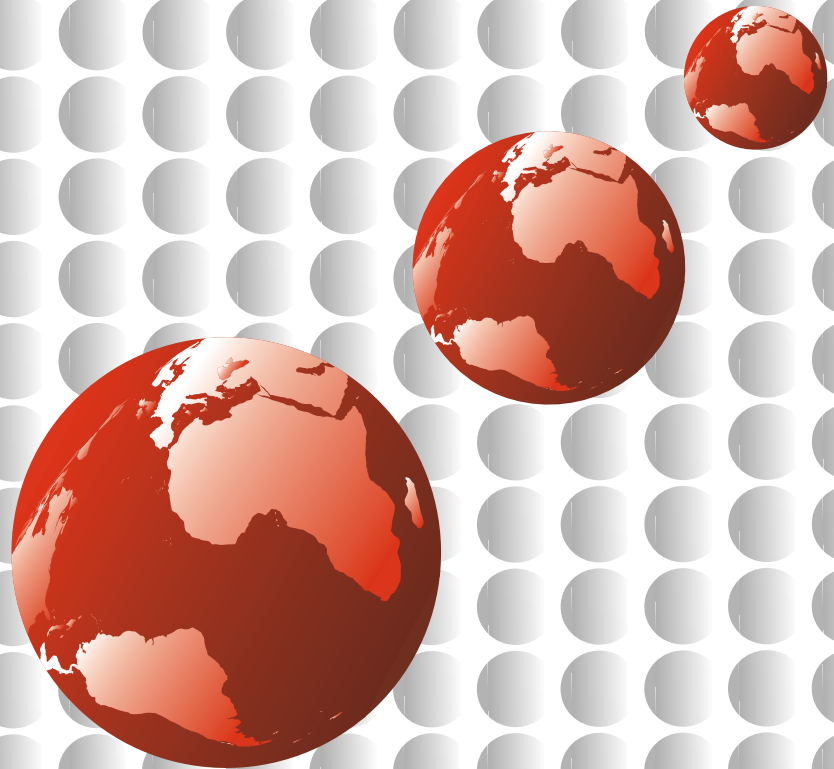




auris 



quartz

oscillator

**PRODUCTS
&
COMPONENTS**

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

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 9001:2000, ISO 14001:2004 and ISO/TS 16949 certified by SGS systems. All crystals and oscillators are fully complaint with RoHS regulations.

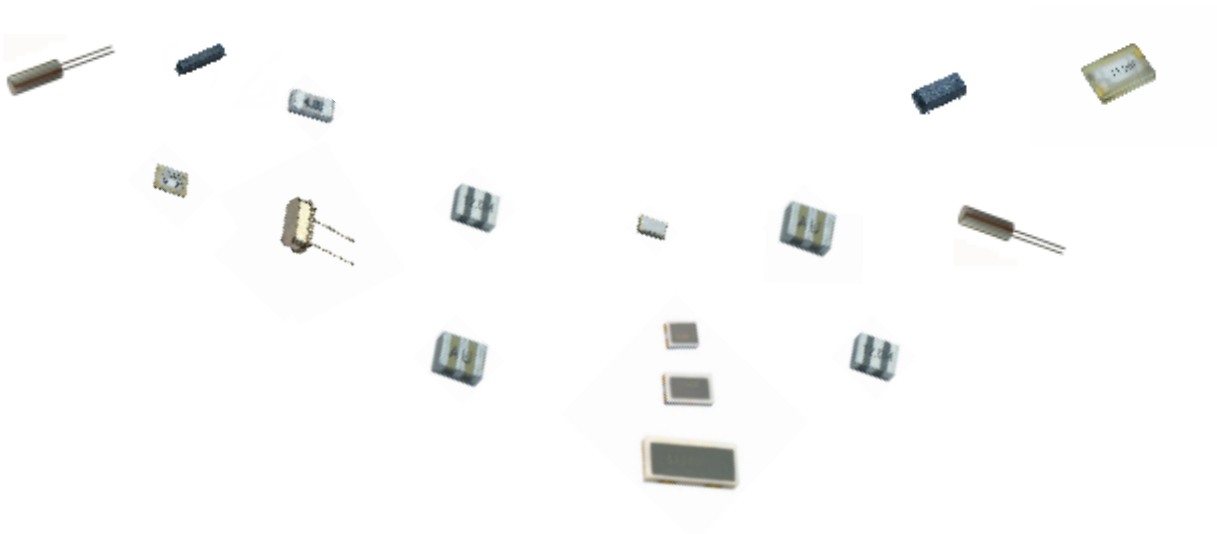
This short form brochure shows our wide range of innovative products and technical competence for all industrial and commercial applications.

Our Customer Service Center offers:

- Design 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 Crystals - Metal Package

Pin Type Thru Hole

SMD

TC155
 Frequency range 32.768kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 6pF ~ 12.5pF
 Temperature coefficient $-0.04 \times 10^{-6} / ^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 1.5x5.0mm



TC206B
 Frequency range 32.768kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 6pF ~ 12.5pF
 Temperature coefficient $-0.035 \pm 0.01 \text{ ppm}/^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 2.0x6.0mm



TC26
 Frequency range 32.768kHz
 30 ~ 200kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 6pF ~ 12.5pF
 Temperature coefficient $-0.04 \times 10^{-6} / ^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 2.0x6.0mm



TC6714
 Frequency range 32.768kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 12.5pF
 Temperature coefficient $-0.034 \pm 0.006 \text{ ppm}/^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 6.7x1.4mm



TC38
 Frequency range 32.768kHz
 30 ~ 100kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 6pF ~ 12.5pF
 Temperature coefficient $-0.04 \times 10^{-6} / ^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 3.0x8.0mm



Tuning Fork Crystals - Plastic & Ceramic Package

SMD Plastic

SMD Ceramic

MP03
 Frequency range 32.768kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 6pF ~ 12.5pF
 Temperature coefficient $-0.04 \times 10^{-6} / ^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 8.0x3.8mm



LC4918
 Frequency range 32.768kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 12.5pF
 Temperature coefficient $-0.034 \times 0.006 \text{ ppm}/^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 4.9x1.8mm



MP6914
 Frequency range 32.768kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 12.5pF
 Temperature coefficient $-0.04 \times 10^{-6} / ^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 6.9x1.4mm



LC4115
 Frequency range 32.768kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 6pF ~ 12.5pF
 Temperature coefficient $-0.034 \times 0.006 \text{ ppm}/^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 4.1x1.5mm



LC3215
 Frequency range 32.768kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 6pF ~ 12.5pF
 Temperature coefficient $-0.034 \times 0.006 \text{ ppm}/^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 3.2x1.5mm



LC2012
 Frequency range 32.768kHz
 Tolerance @ 25°C ±20ppm
 Load capacitance 6pF ~ 12.5pF
 Temperature coefficient $-0.034 \times 0.006 \text{ ppm}/^\circ\text{C}^2$
 Operating Temperature $0^\circ\text{C} \sim +70^\circ\text{C} / -40^\circ\text{C} \sim +85^\circ\text{C}$
 Dimensions 2.0x1.2mm




Quartz Crystal Metal Package


Pin Thru Hole

SMD


HF 26 + HF 38

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 6.00 ~ 48.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 2.1x6.2mm/3.1x8.3mm | |


HF 39

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 4.00 ~ 6.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 3.1x9.3mm | |


HF 310

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 6.00 ~ 125.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 3.1x10.3mm | |


HC 49 U

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 1.8432 ~ 180.00MHz |  |
| Tolerance @ 25°C | ±3ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±3ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 11.5x3.8x13.46mm | |


HC 49 US

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 3.2 ~ 90.00MHz |  |
| Tolerance @ 25°C | ±3ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±3ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 11.1x3.9x2.5(low)/3.5mm | |


UM1

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 6.00 ~ 120.00MHz |  |
| Tolerance @ 25°C | ±3ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±3ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 7.8x2.3x8.0mm | |


UM5

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 8.00 ~ 120.00MHz |  |
| Tolerance @ 25°C | ±3ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±3ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 7.8x3.1x5.8mm | |


HC49USSMD

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 3.50 ~ 90.00MHz |  |
| Tolerance @ 25°C | ±3ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±3ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 13.0x4.8x4.5/3.2/3.0mm/max. | |


HC49M

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 3.50 ~ 90.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 13.2x4.9x5.1mm/max. | |

HC49J


| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 3.50 ~ 90.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 13.2x4.9x5.1mm/max. | |

HC49H


| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 3.50 ~ 90.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 13.2x4.9x5.1mm/max. | |

Quartz Crystal SMD, Ceramic and Glas Package


HC7050 4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 6.00 ~ 125.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 7.5x5.0mm | |


HC6035 2+4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 8.00 ~ 125.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 6.0x3.5mm | |


HC5032 2+4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 8.00 ~ 125.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 5.0x3.2mm | |


HC3225 4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 10.00 ~ 150.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 3.2x2.5mm | |


HC2520 4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 12.00 ~ 80.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 2.5x2.0mm | |


HC2016 4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 19.20 ~ 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 | |
| Abmessungen | 2.0x1.6mm | |

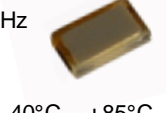
HC1612 4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 26.00 ~ 60.00MHz |  |
| Tolerance @ 25°C | ±10ppm ~ ±50ppm | |
| Tolerance vs. Temperature | ±10ppm ~ ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 8pF ~ series | |
| Abmessungen | 1.6x1.2mm | |


HE7050 2+4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 6.00 ~ 32.00MHz |  |
| Tolerance @ 25°C | ±30ppm | |
| Tolerance vs. Temperature | ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 7.0x5.0mm | |

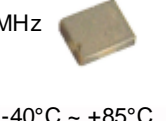
HE6035 2+4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 8.00 ~ 48.00MHz |  |
| Tolerance @ 25°C | ±30ppm | |
| Tolerance vs. Temperature | ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 6.0x3.5mm | |


HE5032 2+4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 12.00 ~ 40.00MHz |  |
| Tolerance @ 25°C | ±30ppm | |
| Tolerance vs. Temperature | ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 5.0x3.2mm | |

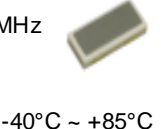
HE3225 4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 12.00 ~ 48.00MHz |  |
| Tolerance @ 25°C | ±30ppm | |
| Tolerance vs. Temperature | ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 5.0x3.2mm | |

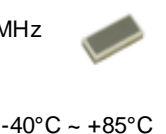
AC1045 2+4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 3.2768 ~ 7.00MHz |  |
| Tolerance @ 25°C | ±30ppm | |
| Tolerance vs. Temperature | ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 10.0x4.5mm | |

AC5032 2+4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 10.00 ~ 30.00MHz |  |
| Tolerance @ 25°C | ±30ppm | |
| Tolerance vs. Temperature | ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 5.0x3.2mm | |

AC3225 4 Pad

| | | |
|---------------------------|-----------------------------|---|
| Frequency range | 12.00 ~ 40.00MHz |  |
| Tolerance @ 25°C | ±30ppm | |
| Tolerance vs. Temperature | ±50ppm | |
| Operating Temperature | 0°C ~ +70°C / -40°C ~ +85°C | |
| Load capacitance | 10pF ~ series | |
| Abmessungen | 3.2x2.5mm | |

Quartz Oscillator Metal Package, Pin Thru Hole

AQO 14

| | |
|--|-----------------------------|
| Frequency range | 1MHz ~ 160MHz |
| Frequency stability | ±25ppm, ±50ppm or ±100ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Input voltage | 3,3V or 5,0V |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions: 20,4x13,1x5,3 (>80MHz 7.7mm) | |



AQO 08

| | |
|--|-----------------------------|
| Frequency range | 1MHz ~ 160MHz |
| Frequency stability | ±25ppm, ±50ppm or ±100ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Input voltage | 3,3V or 5,0V |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions: 20,4x13,1x5,3 (>80MHz 7.7mm) | |



Programmable Oscillator

APQO 14

| | |
|---|---------------------------|
| Frequency range | 1MHz ~ 160MHz |
| Frequency stability | ±25ppm, ±50ppm or ±100ppm |
| Operating temperature | 0°C ~ +70°C |
| Programmable voltage - 5.0V available for 1~133MHz | |
| Programmable voltage - 3.0V+5.0V available for 1~100MHz | |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions | 20,8x13,2x5,3 |



APQO 08

| | |
|---|---------------------------|
| Frequency range | 1MHz ~ 160MHz |
| Frequency stability | ±25ppm, ±50ppm or ±100ppm |
| Operating temperature | 0°C ~ +70°C |
| Programmable voltage - 5.0V available for 1~133MHz | |
| Programmable voltage - 3.0V+5.0V available for 1~100MHz | |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions | 20,8x13,2x5,3 |



Quartz Oscillator, SMD

Clock type, Ceramic Package

AQO 7050

| | |
|---------------------------|-----------------------------|
| Frequency range | 1MHz ~ 160MHz |
| Frequency stability | ±25ppm ~ ±100ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Input voltage | 1.8V, 2.5V, 3,3V or 5,0V |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions: 7.0x5.0x1.8mm | |



AQO 3225

| | |
|---------------------------|-----------------------------|
| Frequency range | 1MHz ~ 50MHz |
| Frequency stability | ±25ppm, ±50ppm or ±100ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Input voltage | 1.8V, 2.8V or 3,3V |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions: 3.2x2.5x1.2mm | |



AQO 5032

| | |
|---------------------------|-----------------------------|
| Frequency range | 1MHz ~ 160MHz |
| Frequency stability | ±25ppm ~ ±100ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Input voltage | 1.8V, 2.5V, 3,3V or 5,0V |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions: 5.0x3.2x1.3mm | |



AQO 2520

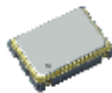
| | |
|---------------------------|-----------------------------|
| Frequency range | 1MHz ~ 50MHz |
| Frequency stability | ±25ppm, ±50ppm or ±100ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Input voltage | 2.8V or 3,3V |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions: 2.5x2.0x1.0mm | |



Quartz Oscillator, programmable

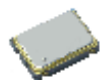
APQO 7050

| | |
|--|-----------------------------|
| Frequency range | 1MHz ~ 133MHz |
| Frequency stability | ±25ppm ~ ±100ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Programmable voltage - 5.0V available for 1~133MHz | |
| Programmable voltage - 3.3V available for 1~100MHz | |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions: 7.0x5.0x1.7mm | |



APQO 5032

| | |
|--|-----------------------------|
| Frequency range | 1MHz ~ 133MHz |
| Frequency stability | ±25ppm ~ ±100ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Programmable voltage - 5.0V available for 1~133MHz | |
| Programmable voltage - 3.3V available for 1~100MHz | |
| Output load | 15pF, 30pF or 50pF |
| Tristate / Power down | available |
| Dimensions: 5.0x3.2x1.2mm | |



MEMS Oscillator, programmable

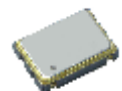
APMO 2520 + 3225 + 5032

| | |
|---------------------------------------|-----------------------------|
| Frequency range | 1MHz ~ 150MHz |
| Frequency stability | ±25ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Input voltage | 1.8V ~ 3,3V |
| Output load | 15pF |
| Tristate | available |
| Dimensions: APMO 2520 - 2.5x2.0x1.0mm | |
| Dimensions: APMO 3225 - 3.2x2.5x1.2mm | |
| Dimensions: APMO 5032 - 5.0x3.2x1.3mm | |



AQO 2520 + 3225 + 5032 + 7050

| | |
|--------------------------------------|-----------------------------|
| Frequency | 32,768kHz |
| Frequency stability | ±25ppm ~ ±100ppm |
| Operating temperature | 0°C ~ +70°C / -40°C ~ +85°C |
| Input voltage | 1.8V, 2.8V or 3,3V |
| Tristate / Power down | available |
| Dimensions: AQO 2520 - 2.5x2.0x1.0mm | |
| Dimensions: AQO 3225 - 3.2x2.5x1.2mm | |
| Dimensions: AQO 5032 - 5.0x3.2x1.3mm | |
| Dimensions: AQO 7050 - 7.0x5.0x1.8mm | |



Quartz

| <u>MHz</u> | <u>Package type:</u> | <u>Frequency range:</u> | |
|-----------------------------|-----------------------------------|----------------------------|--------------------------------------|
| <u>THT (Thru Hole Type)</u> | <u>Metal Package</u> | <u>6.00MHz ~ 125.00MHz</u> | |
| | <u>SMD (Surface Mount Device)</u> | <u>Ceramic Package</u> | <u>6.00MHz ~ 125.00MHz</u> |
| | | <u>All Ceramic Package</u> | <u>3.2768MHz ~ 40.00MHz</u> |
| | | <u>All Quartz Package</u> | <u>3.2768MHz ~ 48.00MHz</u> |
| <u>kHz</u> | <u>THT (Thru Hole Type)</u> | <u>Metal Package</u> | <u>32.768kHz / 32.00kHz ~ 200kHz</u> |
| | <u>SMD (Surface Mount Device)</u> | <u>Plastic Package</u> | <u>32.768kHz</u> |
| | | <u>Ceramic Package</u> | <u>32.768kHz</u> |

Oscillator

| | | | | |
|--------------------------------|----------------------------|-----------------------------------|----------------------------|---------------------------|
| <u>THT (Thru Hole Type)</u> | <u>Metal Package</u> | <u>Clock</u> | <u>1.00MHz ~ 160.00MHz</u> | |
| | | <u>Programmable</u> | <u>1.00MHz ~ 133.00MHz</u> | |
| | | <u>Voltage-controlled</u> | <u>1.00MHz ~ 160.00MHz</u> | |
| | | <u>Temperature-compensated</u> | <u>8.00MHz ~ 40.00MHz</u> | |
| | | <u>Oven-controlled</u> | <u>4.00MHz ~ 30.00MHz</u> | |
| | | <u>SMD (Surface Mount Device)</u> | <u>Ceramic</u> | <u>Clock</u> |
| <u>Programmable</u> | <u>1.00MHz ~ 160.00MHz</u> | | | |
| <u>Voltage-controlled</u> | <u>1.00MHz ~ 133.00MHz</u> | | | |
| <u>Spread spectrum</u> | <u>1.00MHz ~ 40.00MHz</u> | | | |
| <u>Temperature-compensated</u> | <u>1.50MHz ~ 200.00MHz</u> | | | |
| <u>MEMS</u> | <u>Clock</u> | | | <u>8.00MHz ~ 40.00MHz</u> |
| <u>Clock</u> | <u>1.00MHz ~ 150.00MHz</u> | | | |

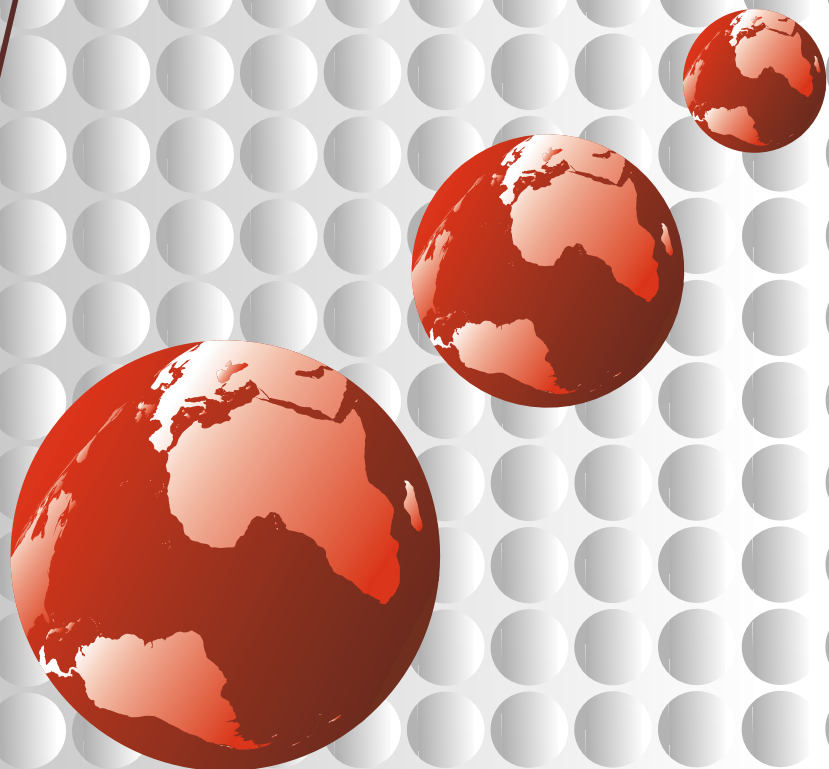


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PRODUCTS & COMPONENTS