

RELIABLE AND INNOVATIVE TIMING SOLUTIONS FROM ECS INC. INTERNATIONAL

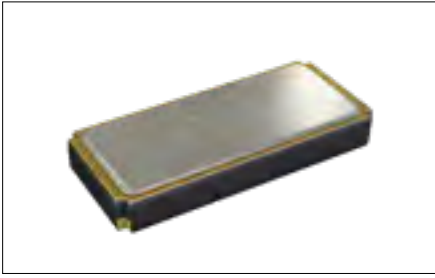
Cost-effective tuning fork and quartz oscillators in stock now

About ECS Inc. International

For more than forty years, ECS Inc. International has been a global leader in critical and reliable quartz frequency control solutions. ECS Inc. has world-class design and engineering teams along with state-of-the-art fabrication sites. The talented team of engineers collaborate daily to offer customers and distributors quality solutions for applications.

ECS Inc. International frequency control catalog

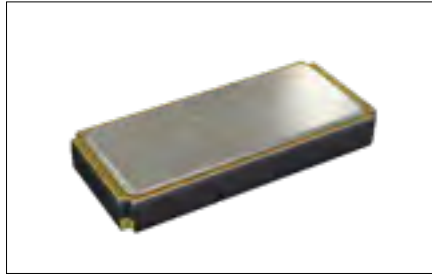
ECS Inc. International prides itself in the quality and reliability of their frequency control and power management components such as tuning forks, quartz crystals, oscillators, TCXOs, AEC-Q200 qualified components, real time clocks, filters, inductors and more. The following selection outlines some of ECS Inc.'s best selling tuning forks, TCXOs and MultiVolt™ oscillators with Farnell. The tuning fork selection covers a wide range of package sizes from 1.6 mm x 1.0 mm to 3.4 mm x 1.5 mm and offers AEC-Q200 qualified options. The TCXOs listed offer a tight ± 2.5 ppm stability in multiple package sizes and different supply voltages. ECS Inc.'s flagship MultiVolt™ oscillators are designed to operate across a variable supply voltage range as well as a standard static supply voltage. All of the following part series are offered in other varieties through Farnell and Avnet.



ECS-.327-7-16-C-TR

The ECX-16 is a compact surface mount 32.768 kHz tuning fork that comes in a 1.6 mm x 1.0 mm x 0.5 mm package. The ECX-.327-7-16-C-TR offers a 7pF load capacitance, ± 10 ppm tolerance and an ESR of 90 k Ω over the standard industrial temperature range of $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$. This component is ideal for mobile devices, wearables, industrial and wireless applications. This component is recommended for the STM32 processors via the AN2867.

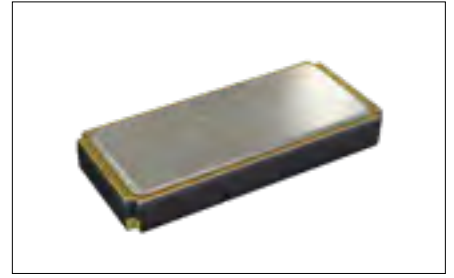
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ECS-.327-12.5-12-TR

The ultra-miniature ECX-12 is a compact surface mount 32.768 kHz tuning fork that comes in a 2.0 mm x 1.2 mm x 0.6 mm package. The ECX-12 offers a tolerance of ± 20 ppm available over the standard industrial temperature range of $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$. This component is ideal for mobile devices, IoT, real time clocks and industrial applications. This component is recommended for the STM32 processors via the AN2867.

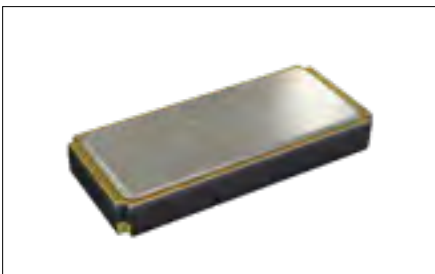
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ECS-.327-12.5-12R-TR

The ECX-12R is a compact surface mount 32.768 kHz tuning fork that comes in a 2.0 mm x 1.2 mm x 0.6 mm package. The ECX-.327-12.5-12R-TR offers a 12.5 pF load capacitance, ± 20 ppm tolerance and an ESR of 70 k Ω over the standard industrial temperature range of $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$. This component is ideal for industrial, IoT and wearable applications.

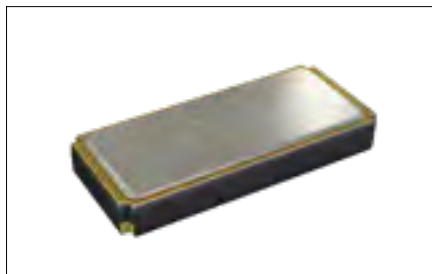
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ECS-.327-12.5-12QS-TR

The ECX-12Q AEC-Q200 qualified SMD 32.768 kHz tuning fork crystal is available in a 2.0 mm x 1.2 mm x 0.55 mm 2-pad package. The ECX-.327-12.5-12QS offers a tolerance of ± 20 ppm and 12.5 pF load capacitance available over the extended temperature range of $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$. This component is ideal for automotive, IoT, mobile and industrial applications.

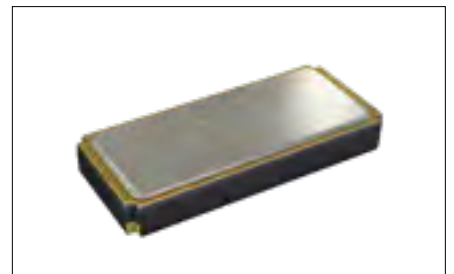
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ECS-.327-12.5-34B-TR

The ECX-31B is the most cost-effective compact surface mount 32.768 kHz tuning fork that comes in a 3.2 mm x 1.5 mm x 0.9 mm package. The ECS-.327-12.5-34B-TR offers a frequency tolerance of ± 20 ppm and a load capacitance of 12.5 pF available over the standard industrial temperature range of $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$. This component is recommended by ST Micro for STM32 processor. This component is ideal for mobile, industrial and wireless applications.

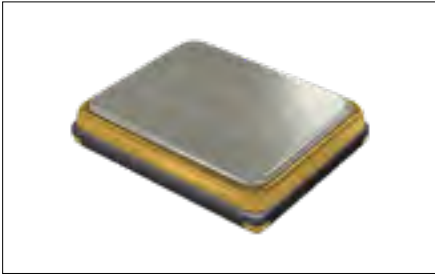
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ECS-.327-12.5-34QCS-TR

The ECX-34Q from ECS Inc. is an AEC-Q200 qualified, compact surface mount 32.768 kHz tuning fork that comes in a 3.2 mm x 1.5 mm x 0.9 mm 2-pad package. The ECS-.327-12.5-34QCS-TR offers a 12.5 pF load capacitance, ± 10 ppm tolerance and an ESR of 70k Ω available over the extended temperature range of $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$. This component is recommended by ST Micro for STM32 processor. This component is ideal for automotive, IoT, and mobile applications.

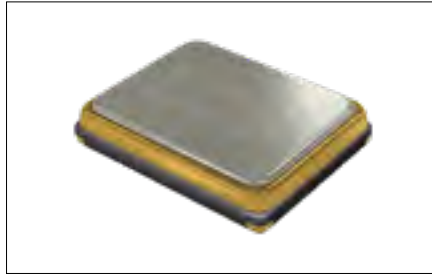
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ECS-1612MV-250-CN-TR

The ECS-1612MV is a standard small form factor HCMOS surface mount oscillator with MultiVolt™ capabilities. They are designed to operate from a variable supply voltage of 1.6V to 3.6V or from a standard 1.8V, 2.5V, 3.0V or 3.3V supplies used in many designs. The ECS-1612MV-250-CNTR is a 25 MHz oscillator that offers a ± 25 ppm stability over the standard industrial temperature range of $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$. This electronic component is ideal for LoRa WAN and industrial applications.

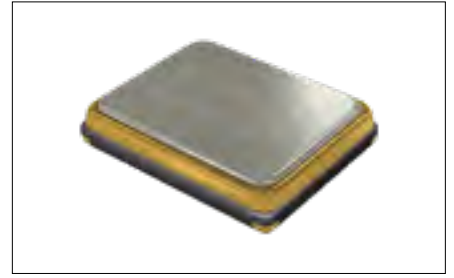
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ECS-2520MV-250-BN-TR

The ECS-2520MV is a 2.5x2.0mm standard small form factor HCMOS surface mount oscillator with MultiVolt™ capabilities. They are designed to operate from a variable supply voltage of 1.6V to 3.6V or from a standard 1.8V, 2.5V, 3.0V or 3.3V supplies used in many designs. ECS-2520MV-250-BN-TR is a 25 MHz oscillator that offers a ± 50 ppm stability over the standard industrial temperature range -40°C to $+85^{\circ}\text{C}$. This electronic component is ideal for wireless and IoT applications where size and stability are critical.

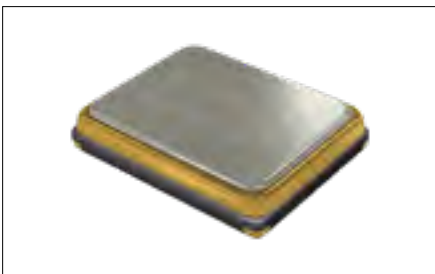
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ECS-3225MV-250-BN-TR

The ECS-3225MV is a standard small form factor HCMOS surface mount oscillator with MultiVolt™ capabilities. They are designed to operate from a variable supply voltage of 1.6V to 3.6V or from a standard 1.8V, 2.5V, 3.0V or 3.3V supplies used in many designs. The ECS-3225MV-250-BN-TR is a 25 MHz oscillator that offers a ± 50 ppm stability over the standard industrial temperature range of $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$. This electronic component is ideal for LoRa WAN, low power, portable and industrial applications where low 1pS jitter.

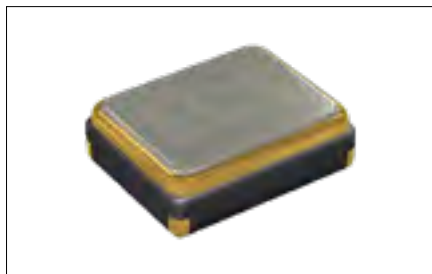
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ECS-327ATQMV-AS-TR

The ECS-327ATQMV is a 32.768 kHz small form factor, AEC-Q200 qualified, HCMOS surface mount oscillator with MultiVolt™ capabilities. They are designed to operate from a variable supply voltage of 1.6V to 3.6V or from a standard 1.8V, 2.5V, 3.0V or 3.3V supplies used in many designs. The ECS-ATQMV-AS-TR offers a ± 100 ppm stability available over the extended temperature range of $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$. This electronic component is ideal for automotive low power/portable and IoT applications.

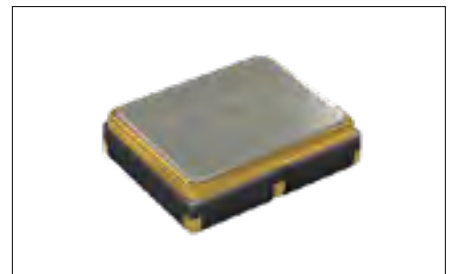
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ECS-TXO-2520-33-240-AN-TR

The ECS-TXO-2520 is a subminiature family of HCMOS surface mount TCXO oscillators. The ECS-TXO-2520-33-240-AN-TR is a 2.5 mm x 2.0 mm x 0.9 mm 24 MHz oscillator that operates off a 3.3 V supply and offers a ± 2.5 ppm stability over the standard industrial temperature range of $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$. This electronic component is ideal for LoRa WAN and wireless IoT applications.

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ECS-TXO-3225MV-240-TR

The ECS-TXO-3225MV is an HCMOS, SMD TCXO oscillator with MultiVolt™ capabilities. They are designed to operate from a variable supply voltage of 1.6V to 3.6V or from a standard 1.8V, 2.5V, 3.0V or 3.3V supplies used in many designs. The ECS-TXO-3225MV-240-TR is a 24 MHz TCXO that offers a ± 2.5 ppm stability over the standard temperature range of $-30^{\circ}\text{C} \sim 85^{\circ}\text{C}$. This electronic component is ideal for portable, wireless applications where stability and size are critical.

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