

# AUTOMOTIVE GRADE FEATURED PRODUCTS

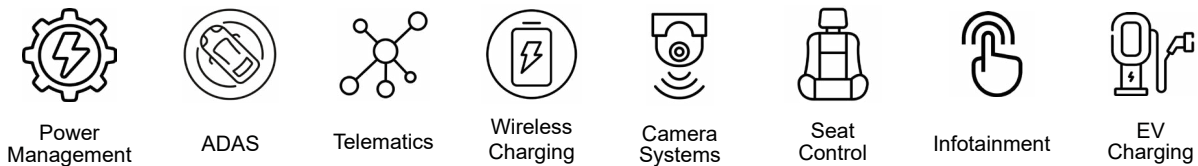
## AEC-Q200 Qualified Crystals, Oscillators and Power Inductors

ECS Inc. provides reliable electronic components for the automotive industry. Today's modern vehicles are equipped with over 125 microprocessors which rely on timing and synchronization components for performance, safety, and convenience. AEC-Q200 qualified crystals, oscillators and power inductors enable features like sensors for monitoring vehicle performance, safety features like collision-avoidance systems and connectivity options for entertainment and navigation.



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### Applications



### AEC-Q200 Crystals

Part Series	Package Size (mm)	Frequency	Tolerance		Max. Operating Temperature	Stability	
			Min.	Max.		Min.	Max.
ECX-12Q	2.0 x 1.2	32.768 kHz	±10 ppm	±20 ppm	-40°C ~ +125°C		
ECX-34Q	3.2 x 1.5	32.768 kHz	±10 ppm	±20 ppm	-40°C ~ +125°C		
ECX-1637Q	2.0 x 1.6	16 MHz ~ 60 MHz	±10 ppm	±30 ppm	-55°C ~ +125°C	±10 ppm	±100 ppm
ECX-33Q	3.2 x 2.5	8 MHz ~ 54 MHz	±10 ppm	±30 ppm	-55°C ~ +125°C	±10 ppm	±100 ppm
ECX-33QZ <sup>2</sup>	3.2 x 2.5	12 MHz ~ 32 MHz	±10 ppm	±25 ppm	-40°C ~ +125°C	±50 ppm	±100 ppm

### AEC-Q200 MultiVolt™ Oscillators

Part Series	Package Size (mm)	Frequency	Stability		Max. Operating Temperature
			Min.	Max.	
ECS-327ATQMV	3.2 x 2.5	32.768 kHz	±25 ppm	±100 ppm	-40°C ~ +125°C
ECS-3225MVQ	3.2 x 2.5	1 MHz ~ 160 MHz	±20 ppm	±100 ppm	-40°C ~ +125°C

### AEC-Q200 Shielded Power Inductors

Part Series	Package Size (mm)	Inductance	Current Rating	Max. Operating Temperature
ECS-HCMPI-0503Q	5.5 x 5.3	150 nH ~ 4.7 µH	7 A ~ 32.5 A	-40°C ~ +125°C
ECS-MPI4040	4.45 x 4.06	90 nH ~ 22 µH	1.8 A ~ 32 A	-55°C ~ +125°C