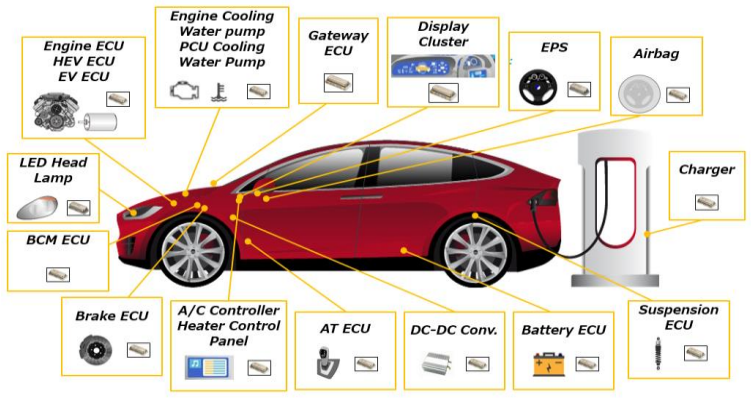
Ceramic Resonator (CERALOCK) for automotive application

muRata
INNOVATOR IN ELECTRONICS

Applications



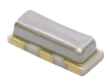
CERALOCK is suitable device for CAN/CAN-FD applications. Murata has been supporting these devices to the automotive market for over 20 years.

Power train: Engine control / Transmission control/ Idling Stop System / EV motor control etc…
Chassis: ABS / ESC / EPS / Steering lock / Suspension etc...
Body: Airbag etc…
Safety: ADAS surround view camera system etc…

Features

- Built-in Capacitors for IC matching to provide space- saving support
- Quick rise times which contribute to shortening the restart time of the microcontroller
- High drop and high mechanical shock performance achieved by unique packaging technology
- Complying with AEC-Q200 Standards
- RoHS directive and ELV directive compliant.
- Available product types offering 150°C operating temperature compatibility
- Low frequency and small package
- Produced at IATF16949 certified plant

Representative Specifications

Series	CSTNR_G_C	CSTNE_G_A/C	CSTNE_V_C	CSTNE_V_T
Appearance				
Dimension	4.5x2.0x1.2mm	3.2x1.3x0.8mm	3.2x1.3x1.0mm	
Frequency	4.00 to 7.99MHz	8.00 to 13.99MHz	14.00 to 20.00MHz	16.00 / 20.00 / 24.00MHz
Operating Temperature	-40 to +125°C	-40 to +125°C	-40 to +125°C	-40～+125°C
Frequency Tolerance	±0.07%	±0.50% / ±0.07%	±0.50% / ±0.07%	±0.07% or equivalent
Frequency Shift by Temperature	±0.13%	±0.20% / ±0.13%	±0.15% / ±0.13%	±0.11% or equivalent
Frequency Aging	±0.07%	±0.10% / ±0.07%	±0.10% / ±0.07%	±0.05%
Total tolerance	±0.27%	±0.80% / ±0.27%	±0.75% / ±0.27%	±0.23%

This content is as of Mar 2021. The contents may be changed without notice.