

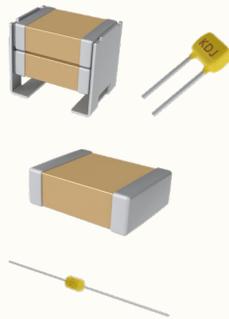
MLCC SOLUTIONS FOR AUTOMOTIVE APPLICATIONS



KEMET provides automotive grade components that are designed with safer failure mechanisms and qualified to industry standards, such as AEC-Q200 and VW AUDI 80808. Our automotive grade products are verified to work under harsh temperatures up to 150°C, and are certified for automotive applications, such as powertrain, on-board electronics, and charging systems. The following are some of top-rated products from our ceramic capacitors family for automotive applications.



PRODUCTS AND BENEFITS



FLEX MITIGATION SOLUTIONS

Flexible Termination, Open Mode, Floating Electrode and Leadframe technologies like KPS, Goldmax and Aximax with COG, U2J, X7R, X8R, and X8L dielectrics, and VW80808 specifications available to offer a more safe product for automotive applications.

- Air Conditioning
- Audio and Navigation
- Keyless entry
- Front Window Heater
- High current applications
- Control units, sensors, and actuators
- Filtering (power plane/bus)
- Electronic and Electrical subsystems

- 6.3 – 250 VDC
- EIA 0603 – 2225
- COG up to 470 nF
- U2J up to 470 nF
- X7R up to 22 μ F
- X8R up to 220 nF
- X8L up to 10 μ F



KONNEKT TECHNOLOGY

High density packaging technology that allows more capacitance without additional board space. Merged with other technologies such as X7R, KC-LINK, and COG, offers a big spectrum for applications.

- Wide bandgap (WBG) systems
- LLC Resonant converters
- Power Train
- Wireless high power charging systems
- DC/DC Converters
- DC Blocking

- 25 – 3000 VDC
- EIA 1812 – 3640
- Up to 40 μ F
- 125°C rated for X7R and COG
- 150°C rated for KC-LINK
- FT available

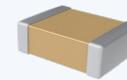


KC-LINK

150°C rated full AEC-Q200 qualified for SiC and GaN Applications, Snubber and Resonance Applications / Ultra stable across frequency, temperature and voltage / High voltage applications.

- Wide bandgap (WBG) systems
- EV/HEV (drive systems, charging)
- Power converters
- LLC Resonant converters
- DC Link
- Inverters

- 500 – 1,700 VDC
- EIA 1812 – 3640
- Up to 150 nF
- 150°C rated
- FT available



HIGH VOLTAGE AUTOMOTIVE MLCC

Available in X7R and COG / For resonant circuits, timing and filtering applications / AEC-Q200 qualified / Flexible Termination optional.

- DC/DC power converter
- Motor Blower
- Power Train
- Wireless high power charging systems

- 500 – 3,000 VDC
- EIA 0603 – 4540
- X7R to 0.56 μ F
- COG to 150 nF
- 125°C rated

ADDITIONAL RESOURCES



Research Parts

Search for parts, view availability, RoHS documentation, or order a sample with [ComponentEdge](#).



Design It

Test and analyze the performance of passive electronic components with KEMET's simulation tool, [K-SIM](#).



Learn More

Learn how to use and design with our products on our [Engineering Center](#).