

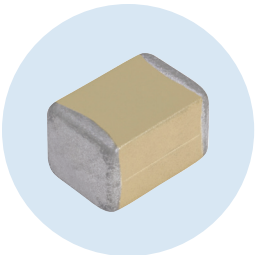
AEC-Q200 Capacitors Product Overview

IATF 16949 Certified

The Component Technical Committee established AEC-Q200 “Stress Test Qualification for Passive Components” to define the minimum stress test driven qualification requirements for passive electrical devices including ceramic capacitors.

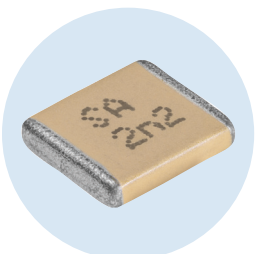
KPD’s Syfer brand has developed a range of MLC capacitors and surface-mount EMI filters qualified to AEC-Q200 that meets the needs of high reliability and automotive manufacturers.

STACKICAP™ MLCC



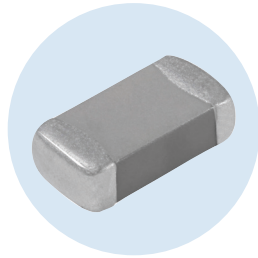
| | |
|--------------|--|
| Product | High Voltage Monolithic Capacitors available in 1812, 2220, and 3640 |
| Applications | <ul style="list-style-type: none"> • Battery management system • On-board charger • DC-DC converter • AC-DC inverter • PTC heater controller |
| Benefits | <ul style="list-style-type: none"> • Suitable for applications in power supplies filtering and DC-DC converters • Suitable replacement for film and tantalum capacitors • Designed to provide high CV in compact packages |

SAFETY CAPACITORS



| | |
|--------------|---|
| Product | Case sizes 1808, 1812, 2211, 2215, and 2220 High Voltage AC MLCCs |
| Applications | <ul style="list-style-type: none"> • Battery management system • On-board charger • DC-DC converter • AC-DC inverter • PTC heater controller • E-compressor inverter |
| Benefits | <ul style="list-style-type: none"> • Safety-certified capacitors are certified to international class Y2, X1 and X2 ratings • UL & TUV certified • Reduces board area and overcomes height restrictions • FlexiCap™ termination option and AEC-Q200 qualification |

FLEXICAP™ MLCC



Product

Case sizes from 0603 – 3640. Range up to 4kV voltage rating for the requirements of modern automotive applications

Applications

- DC/DC converter
- Battery management
- PTC heater controller
- EV and HEV

Benefits

- Reduce the mechanical stress being exerted on the capacitor by PCB design/assembly processes
- Increase the mechanical strength of the component
- Offer 5 millimeter bend test deflection

FLEXICAP™ MLCC

| FLEXICAP™ X7R | 0603 | 0805 | 1206 | 1210 | 1808 | 1812 | 1825 | 2220 | 2225 | 3640 |
|---------------|-------|-------|-------|-------|-------|--------------|-------|--------------|-------|------------|
| 50/63V | 100nF | 220nF | 470nF | 1uF | 680nF | 2.2uF | 2.2uF | 3.3uF | 3.3uF | 4.7uF |
| 100V | 33nF | 100nF | 220nF | 680nF | 560nF | 1uF | 1.5uF | 1.5uF | 2.2uF | 3.3uF |
| 200/250V | 10nF | 47nF | 150nF | 330nF | 270nF | 1uF | 1.0uF | 1.5uF | 1.5uF | 1.5uF |
| 500V | | 15nF | 68nF | 150nF | 150nF | 470nF | 560nF | 1uF | 680nF | 1uF |
| 630V | | 10nF | 47nF | 100nF | 100nF | 330nF | 180nF | 1uF | 390nF | 1uF |
| 1kV | | 4.7nF | 12nF | 47nF | 47nF | 180nF | 180nF | 470nF | 150nF | 1uF |
| 1.2kV | | | 5.6nF | 18nF | 18nF | 33nF | 68nF | 82nF | 100nF | 150nF |
| 1.5kV | | | 5.6nF | 10nF | 10nF | 27nF | 47nF | 68nF | 68nF | 100nF |
| 2kV | | | 2.7nF | 5.6nF | 4.7nF | 15nF | 10nF | 27nF | 33nF | 47nF |
| 2.5kV | | | 1.5nF | 4.7nF | 2.7nF | 10nF | 4.7nF | 18nF | 12nF | 22nF |
| 3kV | | | 1nF | 3.3nF | 2.2nF | 4.7nF | 2.7nF | 15nF | 8.2nF | 18nF |
| 4kV | | | | | 1.5nF | 2.2nF | | 6.8nF | | |

StackiCap™