

PRODUCT OVERVIEW

YAGEO Group KEMET **VW80808 MLCCs** are **automotive grade** capacitors designed to meet enhanced reliability requirements beyond standard AEC-Q200.

These products deliver **higher mechanical robustness**, improved **thermal-cycling endurance**, and better **humidity-bias performance**, making them suitable for harsh environments found in EPS, ADAS, powertrain, and power-conversion modules. With tighter process controls and stricter screening, VW80808 MLCCs offer **consistent electrical behavior**, **reduced crack-related failure risk**.

Quick Facts

Capacitance Range: 1000 pF to 6.8 μ F

Construction: Flexible Termination

Certifications:

VW80808, AEC-Q200,

RoHS & REACH Compliant

Contact & Information

For special requests [contact](#) regional Product Managers.

QR Link to catalog:



CAPACITORS

Multilayer Ceramic Capacitors

VW 80808 Qualified MLCCs

YAGEO GROUP
Built into Tomorrow



Key Selling Points

Features

X7R, C0G, X8R & X8G Dielectrics

Operating temperature range -55°C to +150°C

DC voltage ratings of 6.3V to 1000V

EIA 0603, 0805, 1206, 1210 case sizes

Automotive Grade

Customer Value

Higher crack-resistance and mechanical robustness

Superior thermal cycling and high-temp endurance.

Stronger humidity + bias reliability

More stable manufacturing (reduced lot variation)

Lower risk of dielectric breakdown

Qualified to meet stringent automotive requirements.

Target Applications

- **Flex Mitigation**
- **EPS ECUs (high vibration + board flex)**
- **ADAS controllers (camera, radar, lidar)**
- **Powertrain ECUs (engine, transmission, under-hood modules)**
- **DC-DC converters & inverters (filtering + snubbers)**
- **BMS / OBC (humidity + bias-sensitive circuits)**

Market Advantages

- Provides superior resistance to flex-induced cracking, ensuring higher reliability under tensile and shear stresses during board flexure.
- Built to support fast platform-level adoption across the automotive industry.
- Stronger position in safety-critical automotive modules.
- Lower field-failure risk