

Class I Ceramic COG Series Capacitors

Achieve Twice the Maximum Capacitance,
Exceeding Industry Norms

To address the growing demand for higher power density and more volumetrically efficient converters in both EV and industrial markets, the VM2 range of the Class I Ceramic COG Capacitor Series has a maximum capacitance of 44nF/1kV and 66nF/630V in a compact chip size of 1210. Well suited to support LLC type DC/DC converters in demanding environments, the VM2 range has a unique, vertical-mount construction and offers higher capacitance in a single, compact unit.

The VM2 series of COG ceramic capacitors includes:

- 500V: 39nF – 66nF
- 630V: 39n – 66nF
- 1kV: 27nF – 44nF

FEATURES

- Compact size
- Operating temperature -55C to 125C
- Available in AEC-Q200 qualified and industrial grade
- Novel internal electrode design increases performance when handling ripple current
- Unique construction allows market leading 66nF/630V and 44nF/1kV

BENEFITS

- Extended capacitance range of up to 66nF -630V; 44nF -1kV in compact size 1210
- Offers higher capacitance in single unit allowing it to replace multiple components in a resonant circuit of LLC type DC/DC converters
- Exceptional ESR and improved thermal performance
- Stability under DC voltage

APPLICATIONS

- High power DC/DC converters for industrial and automotive (EV) applications
 - On board charging
 - Wireless charging

