

Multilayer Ceramic Capacitors (MLCC)

High Voltage and Safety Surface-Mount Capacitors

VISHAY

The DNA of tech™

▶ WHERE TO HUNT

Target Applications:

Automotive: On-board charging, battery management systems, e-turbo, e-compressors, DC/DC converters

Industrial: EV charging infrastructure, data centers, renewable energy inverters, stadium / theater lighting, high voltage power supplies, air purification, voltage multipliers

Door Opener Questions:

- Do you need high impulse handling?
- Do you need a safety capacitor above 250 V_{AC}?
- Are you moving from through-hole to SMD?
- Do you need to reduce board space?
- Do you need voltages above 500 V?
- Is your product used in an environment with temperature extremes (outdoor)?
- Do you need protection from board flex issues?

What Sets Us Apart:

- Higher impulse handling
- Best voltage coefficient of capacitance
- Best insulation resistance performance over temperature

▶ HOW TO SELL: Sell the Solution, not the component

“Vishay safety MLCCs outperform all competitors and the HV series has the highest voltage ratings available.”

- Best in class safety capacitors
- AEC-Q200 grade surface-mount safety and high voltage capacitors
- HV series capacitors available with rating to 8 KV
- Flexible polymer terminations available for all high voltage products

▶ HOW TO CLOSE: Advancing the opportunity

“We don’t just supply components — we partner with engineers to design the right product for high voltage and safety capacitors.”

- Pull in support early: engage divisional technical support
- Enable the customer: provide ripple current simulation, design kits, and samples
- Reinforce with resources: infographics, white papers, application notes, toolkits, videos, tailored follow-ups

Vishay Capacitors – a Powerful Portfolio

Film – ESTA – Aluminum – Tantalum – MLCC – Ceramic Technologies

Multilayer Ceramic Capacitors (MLCC)

High Frequency Surface-Mount Capacitors

VISHAY

The DNA of tech.

▶ WHERE TO HUNT

Target Applications:

Automotive: V2X communications, smart traffic

Industrial: MRI and body coils, baggage screening, industrial NMR equipment, RF generators

High reliability: military / municipal tactical radios, patient monitoring, medical telemetry

Door Opener Questions:

- Does your application operate at frequencies above 100 MHz?
- Is your operational temperature above 125 °C
- Do you need a combination of high frequency and high voltage?
- Is your application sensitive to disruptions in the magnetic field?
- Do you need lead (Pb)-bearing terminations?
- Do you need simulation data or design kits?

What Sets Us Apart:

- Non-standard termination materials
- Lower ESR
- Better power handling

▶ HOW TO SELL: Sell the Solution, not the component

“Vishay high frequency MLCCs outperform the competition.”

- Industrial, AEC-Q200 qualified, and DSCC qualified
- High temperature operation for demanding environments
- Non-magnetic terminations

▶ HOW TO CLOSE: Advancing the opportunity

“We don’t just supply components — we partner with engineers to design the right product for high voltage and safety capacitors.”

- Pull in support early: engage divisional technical support
- Enable the customer: provide high frequency simulation, S2p parameters, design kits, Touch N Tune kits, and samples
- Reinforce with resources: infographics, white papers, application notes, toolkits, videos, tailored follow-ups

Vishay Capacitors – a Powerful Portfolio

Film – ESTA – Aluminum – Tantalum – MLCC – Ceramic Technologies