# Safety Certified MLCCs Extend Voltage Ratings to 305 $V_{AC}$ While Providing IEC 60384-14 Certification for X1 Safety Applications, a 2 $kV_{DC}$ Rating, and 5 kV Peak Impulse Voltage Capability for Enhanced Line to Line Protection

## Product Benefits:

- Certified to IEC 60384-14 for X1 safety applications
- Improve system reliability while meeting stringent safety requirements
  - Increased voltage rating to 305 $V_{AC}$
  - 2 $kV_{DC}$ DC voltage rating
  - 5 kV peak impulse voltage capability
- Manufactured with a reliable noble metal electrode (NME) system using a wet build process
- RoHS-compliant, halogen-free, and Vishay Green




## Market Applications:

- Power supplies, EMI and AC line filtering, isolation, and lightning strike and voltage surge protection in energy and industrial equipment, as well as consumer devices and appliances

## The News:

Vishay Intertechnology announces that it has extended its portfolio of VJ Safety Certified Capacitors with a new series of surface-mount multilayer ceramic chip capacitors (MLCC) that increases voltage ratings from 250 $V_{AC}$ to 305 $V_{AC}$.

- With their higher voltage rating, 305 $V_{AC}$ VJ Safety Certified Capacitors series provides enhanced line to line protection for applications requiring greater voltage tolerance and robustness when supply voltages rise above typical nominal values
- The capacitors' surface-mount construction supports automated pick and place assembly and reflow soldering processes, simplifying manufacturing while enabling compact circuit designs

## The Key Specifications:

- Voltage rating: 305 $V_{AC}$
- Voltage rating DC: 2 $kV_{DC}$
- Peak impulse voltage: 5 kV
- Dielectric: X7R
- Capacitance range: 270 pF to 4.7 nF
- Case size: 2220
- Temperature range: -55 °C to +125 °C

**Availability:**

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# NEW PRODUCT INFORMATION

**Product Group:** Vishay Vitramon, MLCCs / **November** 2026

Samples and production quantities of the 305 $V_{AC}$ VJ Safety Certified Capacitors are available now, with lead times of 12 weeks.

To access the product datasheet on the Vishay Website, go to
http://www.vishay.com/ppg?45274 (305 VAC VJ Safety Certified Capacitors)

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