

# Dominic High Voltage Ceramic Capacitor Specifications

What are the characteristics of HV ceramic disc capacitors?

Coupling, by-passing high frequency circuits also use HV ceramic disc capacitors. - a high internal resistance. - a high dielectric strength. - low or moderate losses at working frequencies (from 50 Hz up to 10 kHz). The active power (or losses) being:  $W_a = 2 \pi f C V^2 \tan \delta$  (F V<sup>2</sup>)

What is a high voltage ceramic capacitor?

HIGH VOLTAGE CERAMIC CAPACITORS are particularly suitable for applications requiring a high voltage (from 10 to 150 kV), while reactive current remains low. Ceramic capacitors also achieve very good performance under pulse and discharge conditions. Various disc types cover a wide range of capacitances and voltages as shown in the following figure.

What is a ceramic disc capacitor used for?

(50 & 60Hz) Uncoated discs without fixtures The main applications include live line indicators, AC dividers, grading systems for power distribution network, protection for HV switches and power circuit breakers. Coupling, by-passing high frequency circuits also use HV ceramic disc capacitors. - a high internal resistance.

What is the temperature coefficient of a high voltage ceramic capacitor?

Temperature coefficient TC = +100 to -750 ppm/°C depending on capacitance value  
Tolerances and associated: 1pF (F) ±10% (K) ±20% (M) series C < 10pF E 12 E 6 20TPC  
High Voltage Ceramic Capacitors Quality Assurance LOT RELEASE Every high voltage and power capacitor is inspected individually during manufacture.

Why do we use ceramic HV capacitors?

Coupling, by-passing high frequencies circuits where an important reactive power is needed also use ceramic HV capacitors. These applications require: - a high internal resistance - a high dielectric strength together with: - low or moderate losses at working frequencies (from 50 Hz up to a few kHz).

What is a high and low voltage capacitor divider?

The high and low voltage elements can be supplied either separately or in the same molding. The capacitor divider ratio can be adjusted between 1/200 and 1/10 together with a tolerance that can be as tight as 2%. The products can be developed for rated line voltage from 10kV up to 150 KV rms.

Vishay / Roederstein High-Voltage Ceramic Capacitors provide high capacitance values of up to 2000pF and a voltage range of 10kV to 20kV in a small package size. These high-reliability capacitors consist of a ceramic disc with silver-plated sides, and connection leads that have tinned copper-clad steel wire construction. The high-voltage ceramic capacitors are lead-free ...

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These ceramic capacitors use high dielectric constant ( $K > 1000$ ) ferroelectric materials based on barium titanate. Key features of this capacitor class include its non-linear temperature ...

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper clad steel wire having diameters of  $0.026 \times (0.65 \text{ mm})$  and  $0.032 \times (0.80 \text{ mm})$ . The capacitors may be supplied with straight leads having lead spacing of  $0.37 \times (9.5 \text{ mm})$  and  $0.49 \times (12.5 \text{ mm})$ .

High Voltage Ceramic Capacitors Type HP/HW/HK Type HD/HE HIGH VOLTAGE / AC USES o The main applications include live line indicators, AC dividers, grading systems for power distribution network, protection for HV switches and power circuit breakers. Coupling, by-passing high frequency circuits also use HV ceramic disc capacitors.

HIGH VOLTAGE CERAMIC CAPACITORS 1KV-15KV 2 SPECIFICATION 1. Operating temperature range:  $-25 \sim +85^\circ$  2. Rated working voltage: 1KV to 15KV 3. Capacitance: Within tolerance for Class I at 1MHz / Class II at 1KHz, 1 to 3Vrms, 25 4. Test voltage: 1KV to 3.15KV: 2 times rated voltage with 50mA max charging current.

High Voltage Ceramic Capacitors are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for High Voltage Ceramic Capacitors. 080 42650011 . Contact Mouser (Bangalore) 080 42650011 | Feedback. Change Location English INR INR INR \$ USD India. Please confirm your currency selection: Indian Rupee Incoterms:FCA (Shipping Point) Duty, customs ...

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Because of the special nature of the power system, AC high voltage, high frequency, in the outdoor environment ( $-40$  degrees to  $+60$  degrees), lightning voltage / current, and so on a variety of factors, resulting in high voltage ceramic capacitor has been in a dilemma in the development and production in the harsh environment, requires a capacitor with superior stability, the rate of ...

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KEMET offers the world's smallest high voltage MLCC with internal arc protection. Ideal for Snubbers, V Multipliers, and General Lighting Applications. Thank You!

Therefore, you are requested to approve our product specification or to transact This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specification or transact the approval sheet for product specification before ordering. High-voltage Ceramic Capacitors (DC250V-6.3kV) DEB Series (Class 2/DC1k ...

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These ceramic capacitors use high dielectric constant ( $K \geq 1000$ ) ferroelectric materials based on barium titanate. Key features of this capacitor class include its non-linear temperature characteristics, reliable voltage and frequency performance and predictable change of capacitance with time.

The capacitors consist of a ceramic disc of which both sides are silver-plated. Connection leads are made of tinned copper clad steel wire having diameters of 0.026" (0.65 mm) and 0.032" ...

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