

# High voltage and high power ceramic capacitors

o High-voltage power supply o High-voltage coupling devices o Power line coupling system for Internet & Telecom TECHNOLOGY o HP range: Coated capacitor with fixtures o HW range: Uncoated capacitor with fixtures o HK range: Uncoated capacitor without fixtures o Fixtures: M5 o Delivery mode: bulk in carton box o Dielectric Type II: N4700 class (see typical curves page ...

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TDK's ultra high voltage ceramic capacitors have over 40 years of development and sales history. They are used in various devices such as switches in distribution networks, circuit breakers in substations, and medical and industrial x-ray imaging devices. Due to the use of paraelectric ceramics, they realize stable voltage characteristics ...

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 ...

KYOCERA AVX special high voltage MLC capacitors meet these performance characteristics and are designed for applications such as snubbers in high frequency power converters, resonators in SMPS, and high voltage coupling/DC blocking. These high voltage chip designs exhibit low ESRs at high frequencies.

KEMET's high-voltage, high-temperature (HV-HT) series surface mount, COG, multilayer ceramic capacitors (MLCCs) are constructed of a robust and proprietary base metal electrode (BME) dielectric system that offers excellent performance at extreme temperatures.

Made with a ceramic dielectric, known for its insulation properties, the high voltage, high power capacitors can withstand up to 120kVA. These high frequency power, ceramic disc capacitors can be supplied in diameters ranging from 60mm up to 160mm and have a typical temperature characteristic of  $-750120\text{ppm}/\text{C}$ .

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.

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Its application scenarios are mostly high voltage and high overload environments, such as in gun firing, penetration, and other application scenarios. The high bias electric field borne by pulse power multilayer ceramic capacitors is at the level of  $10^7$  V/m, and the applied force field is at the level of  $10^1$  MPa [2]. Such a complex force ...

Increase Capacity, Stability & Power Quality. GE's high voltage capacitors provide simple and reliable reactive power to improve system performance, quality and efficiency. They are designed and manufactured using advanced technology and high-quality materials, and are all-film dielectric units impregnated with biodegradable dielectric liquid. GE's high voltage capacitor ...

This paper presents a new ceramic capacitor technology for power electronic applications. The novel components are designed for the use as high-voltage DC-Link capacitors in converter and inverter topologies. A recently developed ceramic material with extraordinary high permittivity at high DC-bias fields and a process to co-fire this material with electrodes are the basis of this ...

Class 1 ceramic capacitors are used where high stability and low losses are required. They are very accurate and the capacitance value is stable in regard to applied voltage, temperature and frequency. The NP0 series of capacitors has a capacitance thermal stability of  $\pm 0.54\%$  within the total temperature range of  $-55$  to  $+125$  °C. Tolerances of the nominal capacitance value can ...

Designed in chips, molded and stacked configurations, these HV capacitors are particularly suited for use in high voltage power supplies, high voltage multipliers, high-rel military and space applications.

High Voltage, Ceramic, Capacitors manufactured by Vishay, a global leader for semiconductors and passive electronic components. PRODUCTS SEMICONDUCTORS. diodes and rectifiers. Diodes and Rectifiers discrete thyristors. Phase Control Discrete IC - POWER AND LINEAR. Power ICs Smart Load Switches microBUCK<sup>®</sup>; - Voltage Regulator microBRICK<sup>®</sup>; - DC/DC ...

SPHT Series Ceramic Capacitors are Class 1 parts featuring High Voltage, Current and Power ratings and low self-inductance. A broad variety of these "Power-Disk" capacitors are offered including the innovative and cost effective "Ferris-Wheel" configuration. All SPHT capacitors have low dissipation factors. Their structure is both simple and ...

High voltage capacitors use materials with high dielectric constant and therefore excellent volumetric efficiency. These are normally identified as Class 2 types and can be found in various applications including live line indication in electricity distribution networks and X-ray imaging and therapy power supplies, one specific material ...

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