

VISHAY CERAMIC CAPACITORS

Review of Select Products - 2009

Build Vishay into your Design

Vishay Ceramic Capacitors



LOWER-VOLTAGE DISC CAPACITORS (50 VDC to 500 VDC)

- CERA-MITE: Series 561R.., 652R..
- BCc: Series D...
- DRALORIC: Series HSZ.., HSE..



HIGH-VOLTAGE DISC CAPACITORS (1K VDC to 40K VDC)

- CERA-MITE: Series 564R, 615R, 660C, 715C
- BCc: Series S...
- DRALORIC: Series HFZ.., HIK.., IEL.., (with radial wires)
 HPC, HPD (with screw terminals)





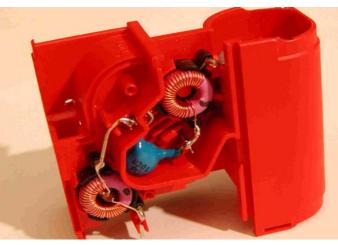


APPLICATIONS for HV and Pulse Disc Capacitors

- Voltage Multiplier Circuits
- X-Ray Technology
- Copy Machines
- Laser Excitation
- Filtering in Xenon Car Headlight Systems







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CERAMIC HV AND PULSE DISC CAPACITORS

TYPICAL APPLICATION

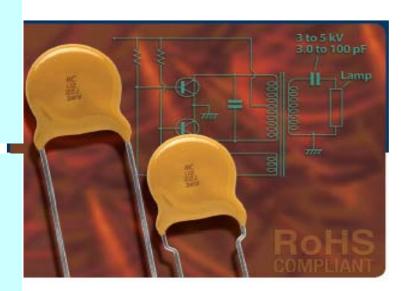


3-kV, 4-kV, and 6-kV High-Voltage Disc Capacitor – Backlight Inverter LCD

- Capacitance range : 2.0pF to 150pF
- Rated voltage 3KVDC to 6KVDC
- Operating temperature :
 -55 °C to +125 °C
- Dielectric strength: 150% of Vrated + 500Vdc (5kV)

Key Features

- Complies with IEC 60384 8
- High reliability
- WEEE/RoHS compliance,acc. EU directive 2002/95/EC
- Outside kink / Inline kink for 3kV



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TYPICAL APPLICATIONS

RFI SUPPRESSION IN SWITCHING MODE POWER SUPPLIES (SMPS)

Computer power supplies (notebooks)
Battery chargers for TV, video, audio, handy utilities
AC/DC adapters

FUNCTION

C2/C3: Line bypass (Y)
C1: Across the line (X)

AC IN C1 CONTROL CONTROL

Printer SMPS



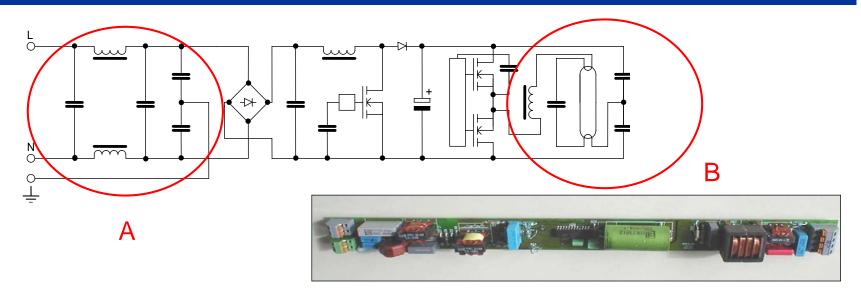


AC/DC Adapter



TYPICAL APPLICATIONS

ELECTRONIC FLUORESCENT LIGHTING BALLAST



- A) Application for RFI ceramic disc Y- function
- B) Application for low-DF 0.2 % max. 1- to 3-KV ceramic disc (pulse handling)





TYPICAL APPLICATIONS

RFI SUPPRESSION IN TV SETS, MONITORS

FUNCTION

C1: Across the line (X)
C2/C3: Line bypass (Y)

C4: Hot / cold coupling (safety capacitor)

MOTOR NOISE SUPPRESSION IN: VACUUM CLEANERS HAIR DRYERS ELECTRICAL TOOLS

FUNCTION

C1: Across the line (X)
C2: Line bypass (Y)







AXIAL AND RADIAL DIPPED MLC

APPLICATIONS

CLASS 1 DIELECTRIC (C0G)

- Temperature compensation of frequency-discriminating circuits and filters
- Coupling and decoupling in high-frequency circuits where low losses and narrow capacitance tolerances are required

CLASS 2 DIELECTRIC (X7R, Y5V)

 As coupling and decoupling capacitors in applications where higher losses and a reduced capacitance stability are tolerated and higher capacitance values are required



VISHAY.

NEW PRODUCTS 2008/2009

 MONOKAP Radial Leaded (K10 Series): For filtering and bypass purposes in industrial electronics. Launched

Halogen-Free Powder Coating: SOP: Q1 2009 (samples available upon customer request)



 Molded High-Voltage Types: Improved HV capacitor with smaller dimensions and expanded voltage and capacitance ranges (e.g., 1400 pF / 20 kV) SOP: Q1 2009 (samples available upon customer request)

