# High Voltage Disc Capacitors

Vishay Cera-Mite High Voltage Capacitors are the choice of discriminating designers throughout the world. Our reputation for product quality and reliability is a result of continuous research in fine electrical ceramics, high temperature coatings, process controls and rigorous production testing.

The 2 and 3 kV parts are widely used in demanding applications such as snubbers, EMI/RFI filters, and switching power supplies. High voltage capacitors are also specified in lower voltage applications to withstand transient voltage and energy surges in accordance with FCC and IEEE standards.

## APPLICATIONS:
- Lightening Ballasts
- Telecommunications
- Power Supplies

## 2000 VOLT, 10% AND 20% TOLERANCE

- **Application Range:**
  - Up to 2500 VDC, 600 VRMS
  - Insulation Resistance: 10,000 MΩ minimum
  - Dissipation Factor: 2.0% maximum

## 3000 VOLT, 10% AND 20% TOLERANCE

- **Application Range:**
  - Up to 4000 VDC, 1000 VRMS
  - Insulation Resistance: 50,000 MΩ minimum
  - Dissipation Factor: 2.0% maximum

## 6000 VOLT, 20% TOLERANCE

- **Application Range:**
  - Up to 6000 VDC, 1500 VRMS
  - Insulation Resistance: 75,000 MΩ minimum
  - Dissipation Factor: 2.0% maximum

### 20GA, 20TS, 30GA, 30TS, 60GA Series

### 604C Series

- **Dielectric Strength:**
  - 3500 VDC, 1000 VRMS
  - 5250 VDC, 1500 VRMS

### 564C Series

- **Dielectric Strength:**
  - 5250 VDC, 1500 VRMS

### 564C Series

- **Dielectric Strength:**
  - 10,500 VDC, 3000 VRMS

### Table: Radial Lead Style - 2000 to 15,000 VDC

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### Diagram: Radial Lead Style - 2000 to 15,000 VDC

[Diagram showing axial and radial lead styles with specifications]

Vishay Cera-Mite: 20GA, 20TS, 30GA, 30TS, 60GA Series

- Radial Lead Style - 2000 to 15,000 VDC
- Axial Lead Style - 10,000 to 30,000 VDC

**Note 1:** #22 AWG .025" (.64) wire leads used on:
- 2GAP10 (LO = .07"
- 30GASS20 (LO = .08"
- 30GASS33 (LO = .10"

### Document Number: 23094

Revision 14-May-02

www.vishay.com
Axial Leaded High Voltage Capacitors, Molded Case, High Temperature, Epoxy Construction

FEATURES

- Greater lead-to-lead arcing distance, without costly encapsulation.
- Longer life at elevated temperatures (up to 125°C); extended thermal cycling.
- Low corona (10 picocoulombs) at rated AC voltage.

MANUFACTURER

Vishay Cera-Mite

20GA, 20TS, 30GA, 30TS, 60GA Series

Radial Lead Style - 2000 to 15,000 VDC
Axial Lead Style - 10,000 to 30,000 VDC

HIGH VOLTAGE APPLICATIONS:

- Televisions, Monitors and Oscilloscopes
- High Voltage Power Supplies and Lasers
- Electronic Air Cleaners
- X-Ray Equipment
- Televisions, Monitors and Oscilloscopes
- X-Ray Equipment

FEATURES

- Application Range: Up to 30,000 VDC 10,000 Vrms
- Dielectric Strength: 150% of rated voltage (in dielectric fluid) charging current limited to 50mA.
- Insulation Resistance: 200,000 MΩ minimum @ 180 VDC, 1000μF.
- Corona: 100 picocoulombs at rated AC voltage.
- Power Dissipation: Limit to 25°C case rise above ambient, 105°C max.
- Peak Current: di/dt limit approx. 2000 V/μs. Application to be tested and confirmed by user.

SPECIFICATIONS:

- Application Range: Up to 30,000 VDC, 10,000 Vrms
- Dielectric Strength: 150% of rated voltage (in dielectric fluid) charging current limited to 50mA.
- Insulation Resistance: 200,000 MΩ minimum @ 180 VDC, 1000μF.
- Corona: 100 picocoulombs at rated AC voltage.