MICROWAVE CAPACITORS
FILM CAPACITORS FOR
MICROWAVE APPLICATIONS
For the long life required for industrial and commercial microwaves, choose CDE capacitors. Our microwave capacitors are constructed using high quality materials and Lean Six Sigma manufacturing practices.

CDE capacitors undergo 100% electrical testing, fault current, and mechanical testing. If you have specialized needs, our flexible manufacturing processes allow us to quickly provide custom configurations.

CDE provides intelligent capacitor solutions.
CDE Microwave capacitors are used in voltage doubler circuits in high voltage microwave oven transformers. The robust design makes these units ideal for withstanding an AC voltage equal to two times the peak voltage of the transformer output voltage in industrial or commercial microwave applications.

**Highlights**
- Dual ratings available
- High voltage threshold for corona
- Long service life designed for industrial and commercial applications

**Specifications**

- **Capacitance Range:** 0.5 µF to 2.0 µF
- **Capacitance Tolerance:** ±3%
- **AC Voltage Range:** 1750 VAC to 3,000 VAC
- **Operating Temperature:** 0°C to +85°C
- **Operating Life:** >3,000 hours
- **Capacitance Stability:** +1% to -1.8%; from 0°C to +85°C
- **Approval Certification:** VDE on specific models

**Applications**
- Industrial Microwave Heating
- Commercial Microwave Ovens
- Water Purification

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### Part Numbering System

The CDE part numbering system is a descriptive part number made up of several components. The descriptors are explained here using N50H2188G as a representative part number:

- **N** = Voltage/cap rating descriptor  
  - E = Rating as indicated  
  - Y = Odd voltage/cap
- **50** = Base size
  - 50 = 1.25” Oval
  - 64 = 1.75” Oval
  - 62 = 2.00” Oval
- **H** = Case type
  - A = CDE
  - C = CDE
  - D = CDE
- **21** = Voltage rating
  - 21 = 2100 VAC
  - 23 = 2300 VAC
  - 25 = 2500 VAC
- **88** = Capacitance code
  - 50 = 0.5 CDE
  - 88 = 0.88 CDE
  - 11 = 1.1 CDE
- **G** = Impregnation fluid
  - Product family
  - Internal resistor

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**CDE Microwave Capators**

**FILM CAPACITORS FOR MICROWAVE APPLICATIONS**
About CDE

CDE is a leading manufacturer of capacitors for industrial, medical and specialized applications, with world-class design, manufacturing and testing facilities in New Bedford, MA. Global manufacturing facilities in China and India enable quick turn-around for shipping and delivery worldwide.

CDE capacitors are among the world’s most reliable components. Our extensive custom design and development capabilities coupled with broad, standardized product offerings allow us to provide intelligent capacitor solutions that meet or exceed customers’ application requirements.

Our aim is to be the best and most sought after provider of capacitor solutions for specialty markets in the world by achieving the highest level of customer satisfaction with extraordinary emphasis on the creation of value and speed to market.

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### Microwave Capacitors

**Typical Sizes for VAC Professional Class 85°C**

<table>
<thead>
<tr>
<th>CAP (CDE)</th>
<th>CDE P/N</th>
<th>VOLTAGE (VAC)</th>
<th>CASETYPE</th>
<th>CASE HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.96</td>
<td>N50H2596G</td>
<td>2500</td>
<td>A</td>
<td>3.25 in (82.6 mm)</td>
</tr>
<tr>
<td>1.15</td>
<td>N50H2511G</td>
<td>2500</td>
<td>A</td>
<td>3.75 in (95.3 mm)</td>
</tr>
<tr>
<td>1.43</td>
<td>N50H2514G</td>
<td>2500</td>
<td>A</td>
<td>4.25 in (108.0 mm)</td>
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<tr>
<td>0.50</td>
<td>N50H2350G</td>
<td>2300</td>
<td>A</td>
<td>3.75 in (95.3 mm)</td>
</tr>
<tr>
<td>0.55</td>
<td>N50H2355G</td>
<td>2300</td>
<td>A</td>
<td>3.75 in (95.3 mm)</td>
</tr>
<tr>
<td>0.56</td>
<td>N50H2356G</td>
<td>2300</td>
<td>A</td>
<td>3.75 in (95.3 mm)</td>
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<tr>
<td>0.59</td>
<td>N50H2359G</td>
<td>2300</td>
<td>A</td>
<td>3.75 in (95.3 mm)</td>
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<tr>
<td>0.72</td>
<td>N50H2372G</td>
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</tr>
<tr>
<td>0.74</td>
<td>N50H2374G</td>
<td>2300</td>
<td>A</td>
<td>3.75 in (95.3 mm)</td>
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<tr>
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<td>N50H2380G</td>
<td>2300</td>
<td>A</td>
<td>4.25 in (108.0 mm)</td>
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<tr>
<td>0.82</td>
<td>N50H2382G</td>
<td>2300</td>
<td>A</td>
<td>4.25 in (108.0 mm)</td>
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<tr>
<td>0.85</td>
<td>N50H2385G</td>
<td>2300</td>
<td>A</td>
<td>4.25 in (108.0 mm)</td>
</tr>
<tr>
<td>0.88</td>
<td>N50H2188G</td>
<td>2100</td>
<td>A</td>
<td>4.25 in (108.0 mm)</td>
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<tr>
<td>0.90</td>
<td>N50H2190G</td>
<td>2100</td>
<td>A</td>
<td>4.25 in (108.0 mm)</td>
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<tr>
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<td>N50H2110G</td>
<td>2100</td>
<td>A</td>
<td>4.25 in (108.0 mm)</td>
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<td>1.00</td>
<td>N50H2111G</td>
<td>2100</td>
<td>A</td>
<td>4.75 in (120.7 mm)</td>
</tr>
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<td>N50H2112G</td>
<td>2100</td>
<td>A</td>
<td>4.75 in (120.7 mm)</td>
</tr>
<tr>
<td>1.30</td>
<td>N50H2113G</td>
<td>2100</td>
<td>A</td>
<td>4.75 in (120.7 mm)</td>
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</tbody>
</table>

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Outline Drawings

**Case Type A**

*Diagram of Case Type A*