RF Power Plate Capacitors with Flat Rim, Class 1 Ceramic

**MATERIAL**
Capacitor elements made from class 1 ceramic dielectric with noble metal electrodes.
Connection terminals: made from copper / brass, silver plated

**FINISH**
Capacitor body completely protective lacquered.

**MARKING**
Type designator, capacitance value and tolerance, rated peak voltage, production date code, ceramic material code, manufacturer logo

**ACCESSORIES ADDED**
Two screws and washers

**FEATURES**
- Low losses
- High reliability
- Small dimensions

**APPLICATIONS**
- Industrial high frequency appliances
- Medical RF equipment
- Filter, bypass, and coupling circuits

**CAPACITANCE RANGE**
100 pF to 1.0 nF

**CAPACITANCE TOLERANCE**
± 10 %

**CERAMIC DIELECTRICS**
- R42 (TCC - 250 ppm/K)
- R85 (TCC - 750 ppm/K)

**RATED VOLTAGE**
- 3.5 kVp
- 6.0 kVp
- 7.0 kVp
- 10 kVp
- 12 kVp

**DIELECTRIC STRENGTH TEST**
200 % of rated voltage (50 Hz)

**DISSIPATION FACTOR**
Max. 0.05 %
Measuring frequencies:
1 MHz (< 1 nF); 300 kHz or 100 kHz (≥ 1 nF)

**INSULATION RESISTANCE**
Min. 10 000 MΩ (at 25 °C)

**OPERATING TEMPERATURE RANGE**
-55 °C to +100 °C
# SAP PART NUMBER, ELECTRICAL AND DIMENSIONAL DATA

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>CERAMIC</th>
<th>CAP. VALUE (pF)</th>
<th>RATED VOLTAGE (kVp)</th>
<th>RATED POWER (kvar)</th>
<th>RATED CURRENT (A&lt;sub&gt; RMS &lt;/sub&gt;)</th>
<th>DIA. D&lt;sub&gt; MAX &lt;/sub&gt; (mm (inches))</th>
<th>WIDTH W&lt;sub&gt; 1 &lt;/sub&gt; (mm (inches))</th>
<th>WIDTH W&lt;sub&gt; 2 &lt;/sub&gt; (mm (inches))</th>
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<tbody>
<tr>
<td><strong>TYPE FPS 60</strong></td>
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<tr>
<td>FPS060WF10136BH1</td>
<td>R42</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td>29 ± 1 (1.14 ± 0.04)</td>
<td>20 ± 1 (0.79 ± 0.04)</td>
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<tr>
<td>FPS060WF20136BJ1</td>
<td>R85</td>
<td>200</td>
<td>12</td>
<td>10</td>
<td>13</td>
<td>30 ± 1 (1.18 ± 0.04)</td>
<td>21 ± 1 (0.83 ± 0.04)</td>
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<td>FPS060WF25136BJ1</td>
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<td>250</td>
<td></td>
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<td>29 ± 1 (1.14 ± 0.04)</td>
<td>20 ± 1 (0.79 ± 0.04)</td>
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<td>FPS060WF30136BJ1</td>
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<td>300</td>
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<td>27 ± 1 (1.06 ± 0.04)</td>
<td>18 ± 1 (0.71 ± 0.04)</td>
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<td>FPS060BH50136BJ1</td>
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<td>500</td>
<td>10</td>
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<td>25 ± 1 (0.98 ± 0.04)</td>
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<td>FPS080VY50136BJ1</td>
<td>R85</td>
<td>500</td>
<td>7.0</td>
<td>15</td>
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<td>29 ± 3 (1.14 ± 0.12)</td>
<td>15 ± 3 (0.59 ± 0.12)</td>
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<td>FPS080VT10236BJ1</td>
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<td>1000</td>
<td>3.5</td>
<td>15</td>
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<td>R85</td>
<td>1000</td>
<td>6</td>
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<td>30 ± 3 (1.18 ± 0.12)</td>
<td>16 ± 3 (0.63 ± 0.12)</td>
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</tr>
</tbody>
</table>

**Note**
1. The surface temperature during operation must not exceed +100 °C

## DIMENSIONS in millimeters (inches)

![Dimensions Diagram]

**Note**
- Dimensions W<sub> 2 </sub> will vary depending upon capacitance value

## RELATED DOCUMENTS

**General Information**

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