RF Power Plate Capacitors with Flat Rim, Class 1 Ceramic

**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

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**QUICK REFERENCE DATA**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceramic Class</td>
<td>1</td>
</tr>
<tr>
<td>Ceramic Dielectric</td>
<td>R42, R85  R85  R85</td>
</tr>
<tr>
<td>Type</td>
<td>FPS 60</td>
</tr>
<tr>
<td>Voltage (Vp)</td>
<td>10 000</td>
</tr>
<tr>
<td>Min. Capacitance (pF)</td>
<td>500</td>
</tr>
<tr>
<td>Max. Capacitance (pF)</td>
<td>500</td>
</tr>
<tr>
<td>Mounting</td>
<td>Screw terminal</td>
</tr>
</tbody>
</table>

**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
# 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) (1)</th>
<th>RATED CURRENT (A_RMS)</th>
<th>DIA. D_MAX mm (inches)</th>
<th>WIDTH W1 mm (inches)</th>
<th>WIDTH W2 mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE FPS 60</td>
<td></td>
<td></td>
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<tr>
<td>FPS060WF10136BH1</td>
<td>R42</td>
<td>100</td>
<td>12</td>
<td>10</td>
<td>13</td>
<td>29 ± 1 (1.14 ± 0.04)</td>
<td>20 ± 1 (0.79 ± 0.04)</td>
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</tr>
<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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<tr>
<td>FPS060WF25136BJ1</td>
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<td>250</td>
<td>12</td>
<td>10</td>
<td>13</td>
<td>29 ± 1 (1.14 ± 0.04)</td>
<td>20 ± 1 (0.79 ± 0.04)</td>
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<tr>
<td>FPS060WF30136BJ1</td>
<td></td>
<td>300</td>
<td>12</td>
<td>10</td>
<td>13</td>
<td>27 ± 1 (1.06 ± 0.04)</td>
<td>18 ± 1 (0.71 ± 0.04)</td>
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<tr>
<td>FPS060BH50136BJ1</td>
<td></td>
<td>500</td>
<td>12</td>
<td>10</td>
<td>13</td>
<td>25 ± 1 (0.98 ± 0.04)</td>
<td>16 ± 1 (0.63 ± 0.04)</td>
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<tr>
<td>TYPE FPS 80</td>
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<tr>
<td>FPS080VY50136BJ1</td>
<td>R85</td>
<td>500</td>
<td>15</td>
<td>13</td>
<td>86 (3.39)</td>
<td>29 ± 3 (1.14 ± 0.12)</td>
<td>15 ± 3 (0.59 ± 0.12)</td>
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<tr>
<td>FPS080VT10236BJ1</td>
<td></td>
<td>1000</td>
<td>15</td>
<td>16</td>
<td>11 ± 3 (0.43 ± 0.12)</td>
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<tr>
<td>TYPE FPS 110</td>
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</tr>
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<td>FPS110BF10236BJ1</td>
<td>R85</td>
<td>1000</td>
<td>6</td>
<td>13</td>
<td>116 (4.57)</td>
<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

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## DIMENSIONS in millimeters (inches)

Note

- Dimensions W2 will vary depending upon capacitance value

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## RELATED DOCUMENTS

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