RF Power Pot Capacitors
with Mounting Tags, Class 1 Ceramic

FEATURES
• High reliability
• Multiple terminals
• High capacitance values

APPLICATIONS
• Induction and dielectric heating
• Antenna units
• Filter, bypass, and coupling circuits

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>R85</td>
</tr>
<tr>
<td>Type</td>
<td></td>
</tr>
<tr>
<td>Voltage (Vp)</td>
<td>6000 9000 10 000 12 000 6000 9000 10 000 12 000</td>
</tr>
<tr>
<td>Min. Capacitance (pF)</td>
<td>3000 2500 1600 1000 6000 5000 3000 2000</td>
</tr>
<tr>
<td>Max. Capacitance (pF)</td>
<td>4000 2500 2000 1200 6000 5000 4000 2000</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. The contoured insulating rim is additionally glazed.

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

CAPACITANCE RANGE
1.0 nF to 6.0 nF

CAPACITANCE TOLERANCE
± 20 %; ± 10 %; ± 5 %

CERAMIC DIELECTRICS
R85 (TCC - 750 ppm/K)

RATED VOLTAGE
• 6.0 kVp
• 9.0 kVp
• 10.0 kVp
• 12.0 kVp

DIELECTRIC STRENGTH TEST
200 % of rated AC voltage (50 Hz, 5 minutes)

DISSIPATION FACTOR
Max. 0.05 % (300 kHz or 100 kHz)

INSULATION RESISTANCE
Min. 100 000 MΩ (at 25 °C)

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

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>CERAMIC</th>
<th>CAP. VALUES (pF)</th>
<th>RATED VOLTAGE (kVp)</th>
<th>RATED POWER (kvar)</th>
<th>RATED CURRENT (ARMS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE T. 050120</td>
<td>R85</td>
<td>1000</td>
<td>12</td>
<td>60</td>
<td>20</td>
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<tr>
<td>T#050120WF102##BJ1</td>
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<td>1200</td>
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<tr>
<td>T#050120BF112##BJ1</td>
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<td>60</td>
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<td>2500</td>
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<td>TYPE T. 050200</td>
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<td>6000</td>
<td>6.0</td>
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</tbody>
</table>

**Notes**
- # 2nd digit: code letter of the terminal version B, E
- ## 14th to 15th digit: capacitance tolerance code ± 20 % = 38, ± 10 % = 36, ± 5 % = 33
- (1) The surface temperature during operation must not exceed +100 °C

### DIMENSIONS in millimeters (inches)

<table>
<thead>
<tr>
<th>TYPE</th>
<th>T. 050120</th>
<th>T. 050200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length L₁</td>
<td>120 (4.72)</td>
<td>200 (7.87)</td>
</tr>
<tr>
<td>Length L₂</td>
<td>60 ± 2 (2.36 ± 0.08)</td>
<td>100 ± 2 (3.94 ± 0.08)</td>
</tr>
<tr>
<td>Length L₃</td>
<td>125 ± 2 (4.92 ± 0.08)</td>
<td>205 ± 2 (8.07 ± 0.08)</td>
</tr>
</tbody>
</table>
DERATING DIAGRAMS

**T#050120WF102##BJ1**

- $U_g$ (kVp)
- $Q_g$ (kvar)
- $I_g$ (A rms)

**T#050120WF122##BJ1**

- $U_g$ (kVp)
- $Q_g$ (kvar)
- $I_g$ (A rms)

**T#050120BH162##BJ1**

- $U_g$ (kVp)
- $Q_g$ (kvar)
- $I_g$ (A rms)

**T#050120BH202##BJ1**

- $U_g$ (kVp)
- $Q_g$ (kvar)
- $I_g$ (A rms)

**T#050120WC252##BJ1**

- $U_g$ (kVp)
- $Q_g$ (kvar)
- $I_g$ (A rms)

**T#050120BF302##BJ1**

- $U_g$ (kVp)
- $Q_g$ (kvar)
- $I_g$ (A rms)

**T#050120BF402##BJ1**

- $U_g$ (kVp)
- $Q_g$ (kvar)
- $I_g$ (A rms)

**T#050200WF202##BJ1**

- $U_g$ (kVp)
- $Q_g$ (kvar)
- $I_g$ (A rms)
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