Series C55
DC-Link Polypropylene Capacitors

Features: Flame retardant to UL94, extended metalized film, dry connection, plastic casing, tinned copper nut terminals, stable performance, high reliability, small volume, convenient installation.
Applications: Single IGBT switch components of small current welder < 400A

Specifications

1) Operating Temperature
   -40°C to 85°C.

2) Capacitance
   2 x 10μF; 2 x 16μF; 2 x 30μF.

3) Rated Voltage
   400 VDC.

4) Tolerance
   ±5%.

5) Test Voltage Between Terminals
   650V (DC) 60s

6) Test Voltage Between Terminals and Case
   2000VAC 10s.

7) Dissipation Factor
   0.1% max at 25°C±5°C

8) Insulation Resistance
   5000 MΩ•μF min, at 100 VDC, 25°C±5°C, 60s.

9) Effective Current (ΔT<25°C)
   20A; 30A; 40A.

10) Equivalent Series Resistance
    <2.3mΩ; <1.8mΩ; <1.6mΩ.

11) Stray Inductance
    ≤20nH

12) Life Expectancy
    200000h at rated DC voltage and 70°C.

13) Reference Standards
    GB/T 17702, IEC 61071
DC Link Nomenclature

C51SC501507KTXXC

Shape Code:
R - Rectangle
B - Box
C - Cylindrical
E - Epoxy
S - Seal

Material:
S - Metallized
D - Double Sided Film
M - Mix
F - Foil
K - Multi-Series

Product Series:
C51 - Round Aluminum Case
C52 - Radial Lead Case
C53 - Tape Wrapped Case
C54 - Rectangular Aluminum Case
C55 - Plastic Case
C56 - Dual Capacitor Rectangular Aluminum Case
C58 - Round Plastic Case

Rated Voltage:
First two digits are significant digits. Third digit is number of zeros.
Ex: 501 = 500V

Tolerance:
J - ±5%
K - ±10%

Order Code:
S - Standard
C - Customized

Lead Type:
FXX - Nut
MXX - Screw
TXX - Lug
LXX - Lead Wire
XX - Lead size/Code

Capacitance: pf
First two digits are significant digits. Third digit is number of zeros.
Ex: 507 = 500 μF
## Dimensions and Ratings

### 400 VDC

<table>
<thead>
<tr>
<th>Cap.</th>
<th>μF</th>
<th>Part #</th>
<th>Dimension (mm)</th>
<th>(mm)</th>
<th>Lead Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>L</td>
<td>W</td>
<td>H</td>
</tr>
<tr>
<td>2 x 10</td>
<td>200</td>
<td>C55SB4012x10KT#</td>
<td>76.0</td>
<td>31.0</td>
<td>35.5</td>
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<tr>
<td>2 x 16</td>
<td>330</td>
<td>C55SB4012x16KT#</td>
<td>105.5</td>
<td>43.0</td>
<td>32.0</td>
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<tr>
<td>2 x 30</td>
<td>150</td>
<td>C55SB4012x30KT#</td>
<td>105.5</td>
<td>43.5</td>
<td>45.0</td>
</tr>
</tbody>
</table>

Please consult factory for special requirements, including non-standard values and sizes

41 Interstate Lane, Waterbury, CT 06705  (203) 755.5629  (203) 755.0659 Fax
www.filmcapacitors.com