BestCap® Ultra-low ESR
High Power Pulse Supercapacitors
# 3.0V SCC Series
High Capacitance Cylindrical SuperCapacitors

The new series of cylindrical electrochemical double-layer capacitors offers excellent pulse power handling characteristics based on the combination of very high capacitance and very low ESR. Used by themselves or in conjunction with primary or secondary batteries, they provide extended back up time, longer battery life, and provide instantaneous power pulses as needed. Offers great solutions to Hold-Up, Energy Harvesting, and Pulse Power Applications.

## FEATURES
- Cap Values from 1F – 100F
- High pulse power capability
- Low ESR
- Low Leakage Current
- Capability to couple with battery

## APPLICATIONS
- Camera Flash Systems
- Energy Harvesting
- GSM/GPRS Pulse Applications
- UPS/Industrial
- Wireless Alarms
- Remote Metering
- Scanners
- Toys and Games

## HOW TO ORDER

<table>
<thead>
<tr>
<th>SCC</th>
<th>S</th>
<th>30</th>
<th>E</th>
<th>106</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>Diameter</td>
<td>Case Length</td>
<td>Voltage Code</td>
<td>Capacitance Code</td>
</tr>
<tr>
<td>SuperCap Cylindrical</td>
<td>Q = 6.3mm</td>
<td>Two digits</td>
<td>E = 3.0V</td>
<td>1st two digits</td>
</tr>
<tr>
<td></td>
<td>R = 8mm</td>
<td>represent case</td>
<td></td>
<td>represent significant</td>
</tr>
<tr>
<td></td>
<td>S = 10mm</td>
<td>length in mm</td>
<td></td>
<td>figures</td>
</tr>
<tr>
<td></td>
<td>T = 12.5mm</td>
<td></td>
<td></td>
<td>3rd digit</td>
</tr>
<tr>
<td></td>
<td>U = 16mm</td>
<td></td>
<td></td>
<td>represents multiplier</td>
</tr>
<tr>
<td></td>
<td>V = 18mm</td>
<td></td>
<td></td>
<td>(number of zeros to follow)</td>
</tr>
</tbody>
</table>

## QUALITY INSPECTION
Parts are tested for Life Cycle, high temperature load life, temperature characteristics, vibration resistance, and humidity characteristics. See page 2 for more information.

## TERMINATION
These SuperCapacitors are compatible with hand soldering and wave soldering processes, so long as appropriate precautions are followed. See page 4 for more information.

## OPERATING TEMPERATURE
-40°C to +65°C @ 3.0V
-40°C to +85°C @ 2.5V

## TERMINATION
- For RoHS compliant products, please select correct termination style.

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**SCC LE Series**

**Low ESR Cylindrical SuperCapacitors**

The new series of cylindrical electrochemical double-layer capacitors offers excellent pulse power handling characteristics based on the combination of very high capacitance and very low ESR. Used by themselves or in conjunction with primary or secondary batteries, they provide extended back up time, longer battery life, and provide instantaneous power pulses as needed. Offers great solutions to Hold Up, Energy Harvesting, and Pulse Power Applications.

**FEATURE**

- Cap Values from 1F - 850F
- High pulse power capability
- Low ESR
- Low Leakage Current

**APPLICATIONS**

- Power Holdup Modules
- Energy Harvesting
- UPS/Industrial
- Robotic Power
- High Pulse Current Applications

### HOW TO ORDER

<table>
<thead>
<tr>
<th>SCC</th>
<th>W</th>
<th>50</th>
<th>B</th>
<th>127</th>
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</thead>
<tbody>
<tr>
<td>SuperCap Cylindrical</td>
<td>Diameter</td>
<td>Case Length</td>
<td>Voltage Code</td>
<td>Capacitance Code</td>
</tr>
<tr>
<td>R = 8mm</td>
<td>Two digits</td>
<td>B = 2.7V</td>
<td>1st two digits represent significant figures</td>
<td></td>
</tr>
<tr>
<td>S = 10mm</td>
<td>length in mm,</td>
<td>2nd digit represents multiplier</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U = 16mm</td>
<td>1K = 105mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>V = 18mm</td>
<td>1A = 115mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W = 22mm</td>
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<tr>
<td>N = 25mm</td>
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<tr>
<td>X = 30mm</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Y = 35mm</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**QUALITY INSPECTION**

Parts are tested for Life Cycle, high temperature load life, temperature characteristics, vibration resistance, and humidity characteristics. See page 2 for more information.

**TERMINATION**

These SuperCapacitors are compatible with hand soldering and wave soldering processes, so long as appropriate precautions are followed. See “Soldering recommendations” on page 5 for more information.

**OPERATING TEMPERATURE**

-40°C to +65°C @ 2.7V
-40°C to +85°C @ 2.3V

**TERMINATION**

These SuperCapacitors are compatible with hand soldering and wave soldering processes, so long as appropriate precautions are followed. See “Soldering recommendations” on page 5 for more information.

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SCC Series
High Capacitance Cylindrical SuperCapacitors

The new series of cylindrical electrochemical double-layer capacitors offers excellent pulse power handling characteristics based on the combination of very high capacitance and very low ESR. Used by themselves or in conjunction with primary or secondary batteries, they provide extended back up time, longer battery life, and provide instantaneous power pulses as needed. Offers great solutions to Hold Up, Energy Harvesting, and Pulse Power Applications.

**FEATURES**
- Cap Values from 1F – 3000F
- High pulse power capability
- Low ESR
- Low Leakage Current

**APPLICATIONS**
- Camera Flash Systems
- Energy Harvesting
- GSM/GPRS Pulse Applications
- UPS/Industrial
- Wireless Alarms
- Remote Metering
- Scanners
- Toys and Games

**HOW TO ORDER**

<table>
<thead>
<tr>
<th>SCC</th>
<th>R</th>
<th>12</th>
<th>B</th>
<th>105</th>
<th>P</th>
<th>R</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q = 6.3mm</td>
<td>R = 8mm</td>
<td>S = 10mm</td>
<td>T = 12.5mm</td>
<td>U = 16mm</td>
<td>V = 18mm</td>
<td>W = 22mm</td>
<td>X = 35mm</td>
</tr>
<tr>
<td>Two digits represent case length in mm, with the exception of the following: 1E = 138mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage Code B = 2.7V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Capitance Code 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) in pF</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tolerance P = +100%/–0% S = +30%/–10%</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead Format R = Radial S = Solder Pin N = Snap-in C = Weldable Lug W = Screw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Package B = Bulk A = Ammo* T = Tray**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Code A1 = 4mm Bent Leads* C1 = 2mm Bent Leads*</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**QUALITY INSPECTIONS**
Parts are tested for Life Cycle, high temperature load life, temperature characteristics, vibration resistance, and humidity characteristics. See page 2 for more information.

**OPERATING TEMPERATURE**
-40°C to +65°C @ 2.7V
-40°C to +85°C @ 2.3V

**TERMINATION**
These SuperCapacitors are compatible with hand soldering and wave soldering processes, so long as appropriate precautions are followed. See “Soldering Recommendations” on page 5 for more information.

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High Reliability SCM Series
Series-Connected SuperCapacitor Modules

This new series of plastic, epoxy-filled SuperCapacitor modules feature high reliability when used in elevated temperatures and/or high humidity conditions. In addition to moisture resistance features, these SuperCapacitor modules offer excellent pulse power handling characteristics based on the combination of very high capacitance and very low ESR. Degradation of electrical characteristics under normal conditions are lengthened in large part to the special plastic, epoxy-filled packaging technology of these SuperCapacitor modules. Used by themselves or in conjunction with primary or secondary batteries, they provide extended back up time, longer battery life, and provide instantaneous power pulses as needed. These modules offer great solutions to hold up, energy harvesting, pulse power applications, and battery replacement.

FEATURES
• High Pulse Power Capability
• Low ESR
• Low Leakage Current
• Plastic, Moisture Resistant
• High Reliability

APPLICATIONS
• Smart/Remote Metering
• Telemetry
• Hybrid Battery Packs
• Scanners
• Environmental Controls
• Network Power Hold-Up
• Pulse Power Handling
• Solid State Drives
• UPS/Industrial
• Energy Harvesting

HOW TO ORDER

<table>
<thead>
<tr>
<th>SCM</th>
<th>R</th>
<th>14</th>
<th>C</th>
<th>474</th>
<th>P</th>
<th>S</th>
<th>B</th>
<th>A</th>
<th>0</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series: SuperCap Module</td>
<td>Diameter: 9.5mm</td>
<td>Case Length: Two digits represent case Length in mm</td>
<td>Voltage Code: C = 6.0V D = 5.4V</td>
<td>Capacitance Code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)</td>
<td>Tolerance: P = +100%/ -0%</td>
<td>Package/Lead Format: S = Plastic/Radial</td>
<td>Package: B = Bulk T = Tray*</td>
<td>Balancing: A = Unbalanced B = Passive Balanced</td>
<td>Lead Orientation: 0 = Straight Leads 1 = 2mm Bent Leads*</td>
<td>Series Code: H = High Reliability</td>
</tr>
</tbody>
</table>

QUALITY INSPECTION
Parts are tested for life cycle, high temperature load life, temperature characteristics, vibration resistance, and humidity characteristics. See page 2 for more information.

TERMINATION
These SuperCapacitors are compatible with hand soldering and wave soldering processes, so long as appropriate precautions are followed. See page 4 for more information.

*Inquire about availability

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High Reliability SCM Series
Series-Connected SuperCapacitor Modules

This new series of plastic, epoxy-filled SuperCapacitor modules feature high reliability when used in elevated temperatures and/or high humidity conditions. In addition to moisture resistance features, these SuperCapacitor modules offer excellent pulse power handling characteristics based on the combination of very high capacitance and very low ESR. Degradation of electrical characteristics under normal conditions are lengthened in large part to the special plastic, epoxy-filled packaging technology of these SuperCapacitor modules. Used by themselves or in conjunction with primary or secondary batteries, they provide extended back up time, longer battery life, and provide instantaneous power pulses as needed. These modules offer great solutions to hold up, energy harvesting, pulse power applications, and battery replacement.

FEATURES
• High Pulse Power Capability
• Low ESR
• Low Leakage Current
• Plastic, Moisture Resistant
• High Reliability

APPLICATIONS
• Smart/Remote Metering
• Telemetry
• Hybrid Battery Packs
• Scanners
• Environmental Controls
• Network Power Hold-Up
• Pulse Power Handling
• Solid State Drives
• UPS/Industrial
• Energy Harvesting

HOW TO ORDER

SCM  R  14  C  474  P  S  B  A  0  H
Series SuperCap Module Diameter Case Length Voltage Code Capacitance Code Tolerance Package/Lead Format Package Balancing Lead Orientation Series Code R = 9.5mm Two digits represent case Length in mm C = 5.0V D = 5.4V 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) P = +100%/-0% S = Plastic/Radial B = Bulk T = Tray* A = Unbalanced B = Passive Balanced 0 = Straight Leads 1 = 2mm Bent Leads* H = High Reliability

QUALITY INSPECTION
Parts are tested for life cycle, high temperature load life, temperature characteristics, vibration resistance, and humidity characteristics. See page 2 for more information.

TERMINATION
These SuperCapacitors are compatible with hand soldering and wave soldering processes, so long as appropriate precautions are followed. See page 4 for more information.

*Inquire about availability

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SCM Series
Series-Connected Super Capacitor Modules

This new series of electrochemical, double-layer, series-connected SuperCapacitor modules offers excellent pulse power handling characteristics based on the combination of very high capacitance and very low ESR. Used by themselves or in conjunction with primary or secondary batteries, they provide extended back up time, longer battery life, and provide instantaneous power pulses as needed. Offers great solutions to hold up, energy harvesting, pulse power applications, and battery replacement.

FEATURES
- High Pulse Power Capability
- Low ESR
- Low Leakage Current
- Plastic, Moisture Resistant Version

APPLICATIONS
- Camera Flash Systems
- Energy Harvesting
- GSM/GPRS Pulse Applications
- UPS/Industrial
- Wireless Alarms
- Remote Metering
- Scanners
- Toys and Games

HOW TO ORDER

<table>
<thead>
<tr>
<th>SCM</th>
<th>R</th>
<th>14</th>
<th>C</th>
<th>474</th>
<th>P</th>
<th>R</th>
<th>B</th>
<th>A</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series SuperCap Module</td>
<td>Diameter</td>
<td>Case Length</td>
<td>Voltage Code</td>
<td>Capacitance Code</td>
<td>Tolerance</td>
<td>Package/Lead Format</td>
<td>Package</td>
<td>Balancing</td>
<td>Lead Orientation</td>
</tr>
<tr>
<td>Q = 6.3mm</td>
<td>Two digits represent case length in mm</td>
<td>C = 5.0V</td>
<td>1st two digits represent significant figures</td>
<td>P = 100%/0%</td>
<td>R = Shrink Wrap/Radial</td>
<td>A = Unbalanced</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R = 8mm/9.5mm **</td>
<td>S = 10mm</td>
<td>F = 5.5V</td>
<td>3rd digit represents multiplier (number of zeros to follow)</td>
<td>S = +30%/-10%</td>
<td>S = Plastic/Radial</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>T = 12.5mm</td>
<td>H = 6.0V</td>
<td>G = 7.5V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U = 16mm</td>
<td>J = 8.1V</td>
<td>L = 9.0V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

QUALITY INSPECTION
Parts are tested for life cycle, high temperature load life, temperature characteristics, vibration resistance, and humidity characteristics. See pages 2-5 for more information.

TERMINATION
These SuperCapacitors are compatible with hand soldering and wave soldering processes, so long as appropriate precautions are followed. See 12 for more information.

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