

## SCM Series

## Series-Connected Super Capacitor Modules

## HOW TO ORDER

SCM R

**Series**  
SuperCap  
Module

**Diameter**  
Q = 6.3mm  
R = 8mm / 9.  
S = 10mm  
T = 12.5mm  
U = 16mm

Parts are tested for life characteristics, vibration. See pages 2-5 for more.

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# SCM Series

## 5.4V/5.0V Series-Connected SuperCapacitors Modules



Part Number	Diameter (mm)	Length (mm)	Rated Capacitance (F)	Capacitance Tolerance	Rated Voltage (V)	Rated Temperature (°C)	DCL Max @ 72 Hrs (μA)	ESR Max @ 1000 Hz (mΩ)	ESR Max @ DC (mΩ)	Peak Current (A)	Power Density (W/kg)	Max Energy (Wh)	Energy Density (Wh/kg)
Shrink Wrap / Radial Lead													
SCMQ14C474MRBA0	6.3	14	0.47	±20%	5.0/4.2*	65/85*	3	400	1000	0.80	2143	0.0016	1.17
SCMQ14C474MRTA0	6.3	14	0.47	±20%	5.0/4.2*	65/85*	3	400	1000	0.80	2143	0.0016	1.17
SCMQ14D474MRBB0	6.3	14	0.47	±20%	5.4/4.6*	65/85*	6	400	1000	0.86	2499	0.0019	1.36
SCMQ14D474MRTB0	6.3	14	0.47	±20%	5.4/4.6*	65/85*	6	400	1000	0.86	2499	0.0019	1.36
SCMR14C474SRBA0	8	14	0.47	+30%/-10%	5.0/4.2*	65/85*	5	375	1720	0.80	1429	0.0016	0.78
SCMR14D474SRBB0	8	14	0.47	+30%/-10%	5.4/4.6*	65/85*	6	375	1720	0.86	1666	0.0019	0.91
SCMR18C105SRBA0	8	18	1	+30%/-10%	5.0/4.2*	65/85*	8	250	730	1.45	1667	0.0035	1.39
SCMR18D105SRBB0	8	18	1	+30%/-10%	5.4/4.6*	65/85*	10	250	730	1.57	1944	0.0041	1.62
SCMR22C155SRBA0	8	22	1.5	+30%/-10%	5.0/4.2*	65/85*	10	200	590	2.01	1669	0.0052	1.68
SCMR22D155SRBB0	8	22	1.5	+30%/-10%	5.4/4.6*	65/85*	15	200	590	2.17	1946	0.0061	1.96
SCMS22C255SRBA0	10	22	2.5	+30%/-10%	5.0/4.2*	65/85*	20	150	370	3.29	1852	0.0087	1.93
SCMS22D255SRBB0	10	22	2.5	+30%/-10%	5.4/4.6*	65/85*	25	150	370	3.55	2113	0.0101	2.20
SCMT22C505SRBA0	12.5	22	5	+30%/-10%	5.0/4.2*	65/85*	25	120	160	7.14	2740	0.0174	2.38
SCMT22D505SRBB0	12.5	22	5	+30%/-10%	5.4/4.6*	65/85*	30	120	160	7.50	2916	0.0203	2.70
SCMT32C755SRBA0	12.5	32	7.5	+30%/-10%	5.0/4.2*	65/85*	65	90	130	8.52	1953	0.0260	2.71
SCMT32D755SRBB0	12.5	32	7.5	+30%/-10%	5.4/4.6*	65/85*	70	90	130	9.20	2209	0.0304	3.07

\*with appropriate voltage derating operating temperature can be extended to 85°C

### OPERATING TEMPERATURE RANGE

-40°C to +65°C @ 5.4V Balanced, 5.0V Unbalanced

-40°C to +85°C @ 4.6V Balanced, 4.2V Unbalanced

### QUALIFICATION TEST SUMMARY

Test	Test Method	Parameter	Limits
Life Cycle	Capacitors are cycled between rated voltage and half-rated voltage under constant current at +25°C for 500,000 cycles	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
High Temperature Load Life	Temperature: +65°C Voltage: Rated Voltage Test Duration: 1,000 hours	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
Storage Temperature Characteristics	Storage Duration: 2 years No Load Temperature: +35°C	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
Vibration Resistance	Amplitude: 1.5mm Frequency: 10 ~ 55Hz Direction: X, Y, Z for 2 hours each	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
Humidity	Voltage: Rated Voltage RH: 90% Temperature: +60°C Test Duration: 1,000 hours	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects



# SCM Series

## 6.0V/5.5V Series-Connected SuperCapacitors Modules



Part Number	Diameter (mm)	Length (mm)	Rated Capacitance (F)	Capacitance Tolerance	Rated Voltage (V)	Rated Temperature (°C)	DCL Max @ 72 Hrs (μA)	ESR Max @ 1000 Hz (mΩ)	ESR Max @ DC (mΩ)	Peak Current (A)	Power Density (W/kg)	Max Energy (Wh)	Energy Density (Wh/kg)
Shrink Wrap / Radial Lead													
SCMQ14F474MRBA0	6.3	14	0.47	±20%	5.5/4.6*	65/85*	6	500	3000	0.54	864	0.0020	1.41
SCMQ14H474MRBB0	6.3	14	0.47	±20%	6.0/5.0*	65/85*	7	500	3000	0.59	1029	0.0024	1.68
SCMR14F474SRBA0	8	14	0.47	+30%/-10%	5.5/4.6*	65/85*	6	380	1720	0.71	1005	0.0020	0.94
SCMR14H474SRBB0	8	14	0.47	+30%/-10%	6.0/5.0*	65/85*	7	380	1720	0.78	1196	0.0024	1.12
SCMR18F105SRBA0	8	18	1	+30%/-10%	5.5/4.6*	65/85*	9	250	730	1.60	2017	0.0042	1.68
SCMR18H105SRBB0	8	18	1	+30%/-10%	6.0/5.0*	65/85*	11	250	730	1.74	2400	0.0050	2.00
SCMR22F155SRBA0	8	22	1.5	+30%/-10%	5.5/4.6*	65/85*	12	200	590	2.24	2091	0.0063	2.03
SCMR22H155SRBB0	8	22	1.5	+30%/-10%	6.0/5.0*	65/85*	18	200	590	2.45	2488	0.0075	2.42
SCMS22F255SRBA0	10	22	2.5	+30%/-10%	5.5/4.6*	65/85*	24	180	370	3.72	2373	0.0105	2.33
SCMS22H255SRBB0	10	22	2.5	+30%/-10%	6.0/5.0*	65/85*	30	180	370	4.05	2762	0.0125	2.72
SCMS32F505SRBA0	10	32	5	+30%/-10%	5.5/4.6*	65/85*	30	120	160	7.86	3580	0.0210	3.11
SCMS32H505SRBB0	10	32	5	+30%/-10%	6.0/5.0*	65/85*	36	120	160	8.57	4235	0.0250	3.68
SCMT22F505SRBA0	12.5	22	5	+30%/-10%	5.5/4.6*	65/85*	30	120	160	7.86	3176	0.0210	2.76
SCMT32F755SRBA0	12.5	32	7.5	+30%/-10%	5.5/4.6*	65/85*	78	90	130	10.86	3151	0.0315	3.28
SCMT32H755SRBB0	12.5	32	7.5	+30%/-10%	6.0/5.0*	65/85*	84	90	130	11.84	3600	0.0375	3.75
SCMU33F156SRBA0	16	33	15	+30%/-10%	5.5/4.6*	65/85*	85	40	100	23.57	4033	0.0630	3.50
SCMU33F156SRBB0	16	33	15	+30%/-10%	5.5/4.6*	65/85*	90	40	100	23.57	3946	0.0630	3.43
Plastic / Radial Lead													
SCMR14F474SSBA0	9.5	16	0.47	+30%/-10%	5.5/4.6*	65/85*	6	380	1720	0.71	541	0.0020	0.51
SCMR14H474SSBB0	9.5	16	0.47	+30%/-10%	6.0/5.0*	65/85*	7	380	1720	0.78	644	0.0024	0.60
SCMR18F105SSBA0	9.5	20	1	+30%/-10%	5.5/4.6*	65/85*	9	250	730	1.60	1096	0.0042	0.91
SCMR18H105SSBB0	9.5	20	1	+30%/-10%	6.0/5.0*	65/85*	11	250	730	1.74	1304	0.0050	1.09
SCMR22F155SSBA0	9.5	24	1.5	+30%/-10%	5.5/4.6*	65/85*	12	200	590	2.24	1179	0.0063	1.15
SCMR22H155SSBB0	9.5	24	1.5	+30%/-10%	6.0/5.0*	65/85*	18	200	590	2.45	1403	0.0075	1.36

### OPERATING TEMPERATURE RANGE

-40°C to +65°C @ 6.0V Balanced, 5.5V Unbalanced  
-40°C to +85°C @ 5.0V Balanced, 4.6V Unbalanced

### QUALIFICATION TEST SUMMARY

Test	Test Method	Parameter	Limits
Life Cycle	Capacitors are cycled between rated voltage and half-rated voltage under constant current at +25°C for 500,000 cycles	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
High Temperature Load Life	Temperature: +65°C Voltage: Rated Voltage Test Duration: 1,000 hours	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
Storage Temperature Characteristics	Storage Duration: 2 years No Load Temperature: +35°C	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
Vibration Resistance	Amplitude: 1.5mm Frequency: 10 ~ 55Hz Direction: X, Y, Z for 2 hours each	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
Humidity	Voltage: Rated Voltage RH: 90% Temperature: +60°C Test Duration: 1,000 hours	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects



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# SCM Series

## 7.5V Series-Connected Super Capacitor Modules


# SCM Series

## 9.0V/8.1V Series-Connected Super Capacitor Modules



Part Number	Diameter (mm)	Length (mm)	Rated Capacitance (F)	Capacitance Tolerance	Rated Voltage (V)	Rated Temperature (°C)	DCL Max @ 72 Hrs (μA)	ESR Max @ 1000 Hz (mΩ)	ESR Max @ DC (mΩ)	Peak Current (A)	Power Density (W/kg)	Max Energy (Wh)	Energy Density (Wh/kg)
Shrink Wrap / Radial Lead													
SCMR14J334SRBA0	8	14	0.33	+30%/-10%	8.1/6.9*	65/85*	6	540	1500	0.69	897	0.0030	0.98
SCMR14J334SRBB0	8	14	0.33	+30%/-10%	8.1/6.9*	65/85*	7	540	1500	0.69	869	0.0030	0.95
SCMR14L334SRBB0	8	14	0.33	+30%/-10%	9.0/7.6*	65/85*	7	540	1500	0.77	1072	0.0037	1.17
SCMR18J604SRBA0	8	18	0.6	+30%/-10%	8.1/6.9*	65/85*	9	400	1200	1.47	1934	0.0055	1.45
SCMR18J604SRBB0	8	18	0.6	+30%/-10%	8.1/6.9*	65/85*	12	400	1200	1.47	1869	0.0055	1.40
SCMR18L604SRBB0	8	18	0.6	+30%/-10%	9.0/7.6*	65/85*	12	400	1200	1.64	2308	0.0068	1.73
SCMR22J105SRBA0	8	22	1	+30%/-10%	8.1/6.9*	65/85*	12	350	1050	2.20	1986	0.0091	1.93
SCMR22J105SRBB0	8	22	1	+30%/-10%	8.1/6.9*	65/85*	15	350	1050	2.20	1894	0.0091	1.84
SCMR22L105SRBB0	8	22	1	+30%/-10%	9.0/7.6*	65/85*	18	350	1050	2.45	2338	0.0113	2.27
Plastic / Radial Lead													
SCMR14J334SSBA0	9.5	16	0.33	+30%/-10%	8.1/6.9*	65/85*	6	540	1500	0.69	498	0.0030	0.54
SCMR14L334SSBB0	9.5	16	0.33	+30%/-10%	9.0/7.6*	65/85*	7	540	1500	0.77	598	0.0037	0.65
SCMR18J604SSBA0	9.5	20	0.6	+30%/-10%	8.1/6.9*	65/85*	9	400	1200	1.47	1063	0.0055	0.80
SCMR18L604SSBB0	9.5	20	0.6	+30%/-10%	9.0/7.6*	65/85*	12	400	1200	1.64	1286	0.0068	0.96
SCMR22J105SSBA0	9.5	24	1	+30%/-10%	8.1/6.9*	65/85*	12	350	1050	2.20	1129	0.0091	1.10
SCMR22L105SSBB0	9.5	24	1	+30%/-10%	9.0/7.6*	65/85*	18	350	1050	2.45	1361	0.0113	1.32

### OPERATING TEMPERATURE RANGE

-40°C to +65°C @ 9.0V Balanced, 8.1V Unbalanced  
-40°C to +85°C @ 7.6V Balanced, 6.9V Unbalanced

### QUALIFICATION TEST SUMMARY

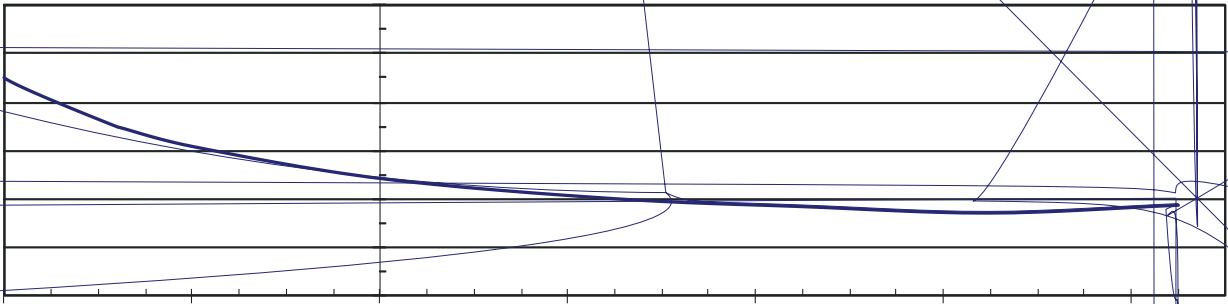
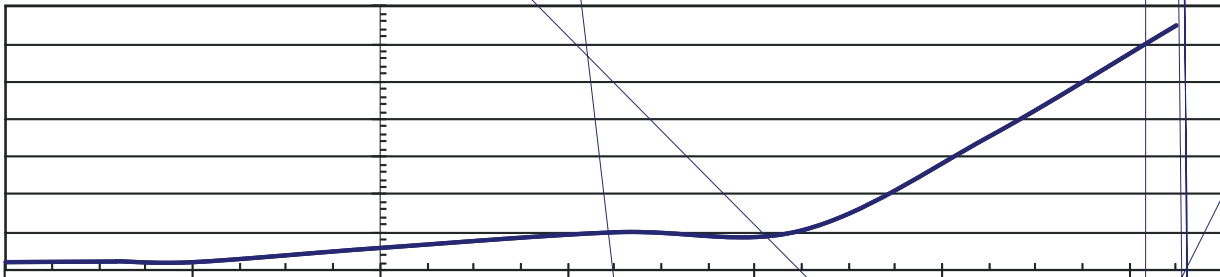
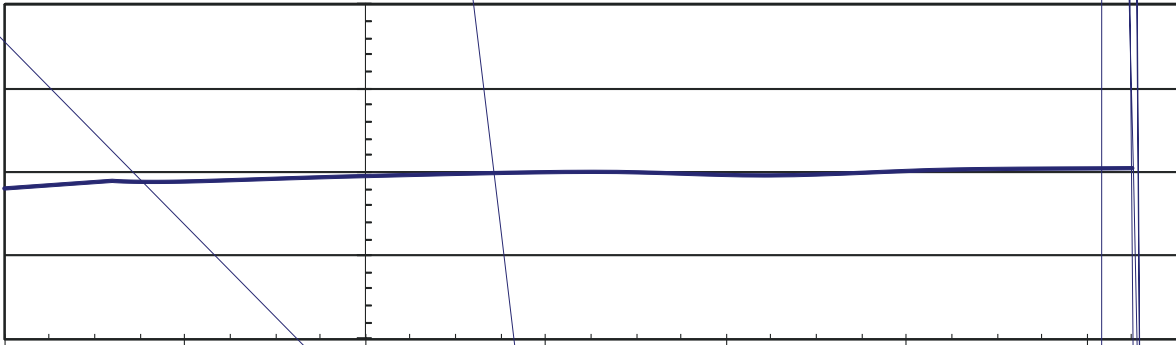
Test	Test Method	Parameter	Limits
Life Cycle	Capacitors are cycled between rated voltage and half-rated voltage under constant current at +25°C for 500,000 cycles	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
High Temperature Load Life	Temperature: +65°C Voltage: Rated Voltage Test Duration: 1,000 hours	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
Storage Temperature Characteristics	Storage Duration: 2 years No Load Temperature: +35°C	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
Vibration Resistance	Amplitude: 1.5mm Frequency: 10 ~ 55Hz Direction: X, Y, Z for 2 hours each	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects
Humidity	Voltage: Rated Voltage RH: 90% Temperature: +60°C Test Duration: 1,000 hours	Capacitance ESR Appearance	≥70% of spec value ≤200% of spec value No remarkable defects



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# SCM Series

## Series-Connected Super Capacitor Modules

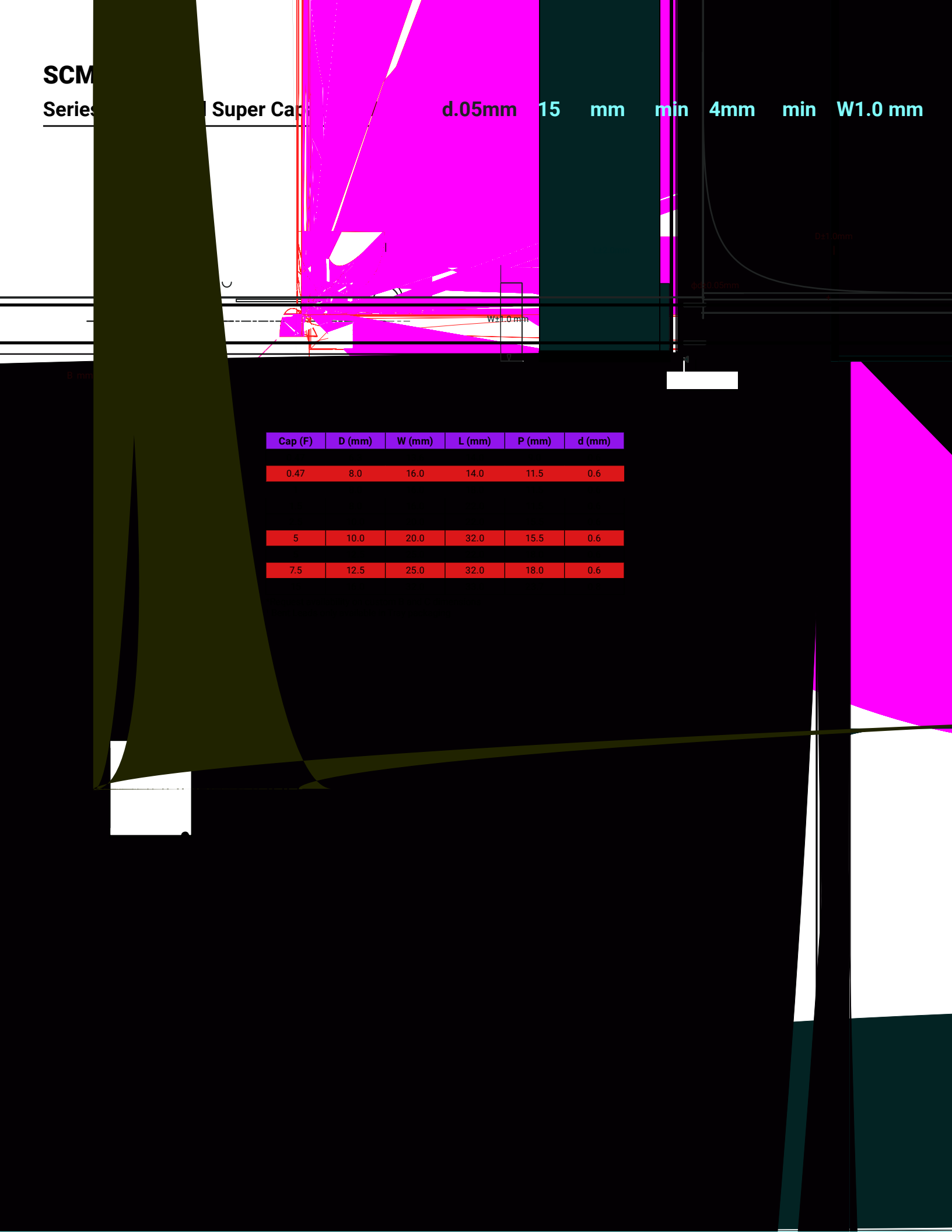


SCM

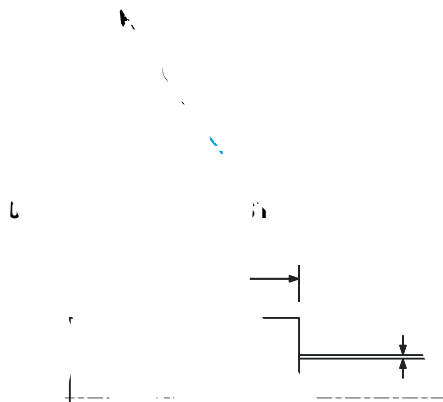
Series

Super Cap

d.05mm 15 mm min 4mm min W1.0 mm



Cap (F)	D (mm)	W (mm)	L (mm)	P (mm)	d (mm)
0.47	8.0	16.0	14.0	11.5	0.6
5	10.0	20.0	32.0	15.5	0.6
7.5	12.5	25.0	32.0	18.0	0.6



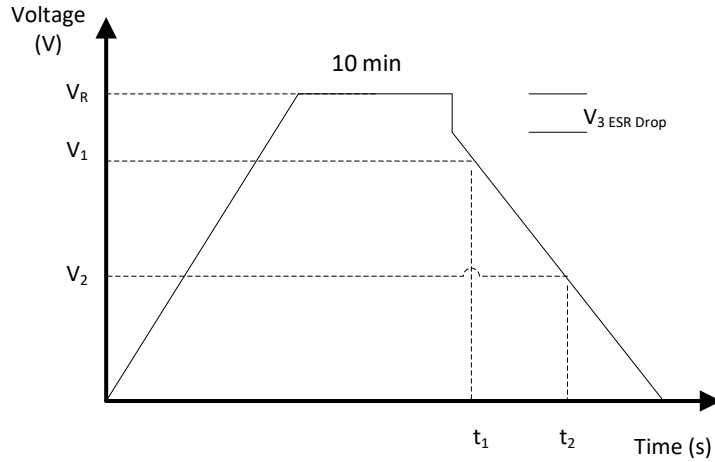




### TEST METHODS

#### IEC CAPACITANCE TEST METHOD

Procedure: Charge module under constant current to rated voltage at room temperature, then hold 10 minutes on charge under constant voltage. After 10 minutes, discharge under constant current (as shown in chart below), recording voltage at  $V_1$ ,  $V_2$ , and time intervals at  $t_1$  and  $t_2$ . Use the capacitance formula to determine cap value.



$I$  – Discharge Current,  $4 \times C \times V_R$  (mA)

$V_R$  – Rated Voltage (V)

$V_1$  – Initial Test Voltage, 80% Of  $V_R$  (V)

$V_2$  – Final Test Voltage, 40% Of  $V_R$  (V)

$t_1$  – Initial Test Time (s)

$t_2$  – Final Test Time (s)

$$C = \frac{I \times (t_2 - t_1)}{V_1 - V_2}$$

#### DC ESR MEASUREMENT

A six-step ESR<sub>DC</sub> test method is illustrated to the right and carried out as follows:

- Rest 10 Seconds
- Charge under constant current ( $I_1$ ) to rated voltage ( $V_R$ )
- Rest 5 seconds
- Rest 10 seconds, record  $V_3$  and  $t_4$
- Discharge under constant current ( $I_2$ ) to half rated voltage, Record  $I_2$ ,  $V_4$ , And  $t_5$
- Rest 2 seconds, record  $V_5$  And  $t_6$

Repeat steps 1-6 recording  $I$ ,  $V$ , And  $t$  accordingly, finally discharging to below 0.1V under constant current ( $I_2$ ).

Formulas to calculate:

- Two cycle discharge capacitances:  $C_{dch1} = I_2 \times \frac{(t_5 - t_4)}{V_3 - V_4}$ ;  $C_{dch2} = I_2 \times \frac{(t_{11} - t_{10})}{(V_9 - V_{10})}$
- Discharge capacitance:  $C_{dch} = \frac{(C_{dch1} + C_{dch2})}{2}$
- Two cycle discharge DC ESR:  $ESR_{dch1} = \frac{(V_5 - V_4)}{I_2}$ ;  $ESR_{dch2} = \frac{(V_{11} - V_{10})}{I_2}$
- Discharge DC ESR:  $ESR_{dch} = \frac{(ESR_{dch1} + ESR_{dch2})}{2}$

Note:  $I_1 = I_2 = 75\text{mA/F}$ , the rated capacitance in the chart means discharge capacitance, and DC ESR (ESR<sub>DC</sub>) means discharge DC resistance.

$V_R$

50%  $V_R$



### TEST METHODS (continued)

#### MAXIMUM CONTINUOUS CURRENT

- This is the maximum current when temperature rise of the supercapacitor during its operation is less than 15°C

#### MAXIMUM PEAK CURRENT

- This is the maximum current during 1 second time interval (dt)

#### WATT DENSITY

- Watt Density =  $(0.12 \cdot V^2 / R_{DC}) / \text{mass}$

#### ENERGY DENSITY

- Energy Density =  $(\frac{1}{2} CV^2) / (3600 \cdot \text{mass})$

### POLARITY AND REVERSE VOLTAGE

For product consistency and optimum performance, it is recommended that the capacitor be connected with polarity indicated. Reversing polarity could result in permanent damage to the circuit including much higher leakage current for a short duration of time and the life time of the supercapacitors will be reduced.

### LIFE TIME AND TEMPERATURE PERFORMANCE

The life of a supercapacitor is impacted by a combination of operating voltage and the operating temperature according to the following Time to Failure equation:

$$t \propto V^n \times e^{\left(\frac{-Q}{kT}\right)}$$

where V is the operating voltage, Q is the activation energy in electron volts (eV), k is the Boltzmann constant in eV, and T is the operating temperature in Kelvin (K). Typical values for the voltage exponent, n, is between 2.5-3.5, and Q is between 1.0-1.2 eV in the normal operating temperature range of -40° to 65°C.

The industry standard for supercapacitor end of life is when the equivalent series resistance, ESR, increases to 200% of the specified value and the capacitance drops by 30% from specified value. Typically a supercapacitor shows an initial “jump” in the ESR value and then levels off. If the supercapacitors are exposed to excessive temperatures the ESR will show a continuous degradation (increase). In the extreme case, if the temperature or voltage are substantially higher than the rated specifications, this could result in the part venting and the product showing a faster degradation of capacitance and ESR, which may be many times the specified value.

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### SOLDERING RECOMMENDATIONS

When soldering SuperCapacitors to a PCB, the temperature & time that the body of the SuperCapacitor sees during soldering can have a negative effect on performance. We advise following these guidelines:

- Do not immerse the SuperCapacitors in solder. Only the leads should come in contact with the solder.
- Ensure that the body of the SuperCapacitor is never in contact with the molten solder, the PCB or other components during soldering.
- Excessive temperatures or excessive temperature cycling during soldering may cause the safety vent to burst or the case to shrink or crack, potentially damaging the PCB or other components, and significantly reduce the life of the capacitor.

**PRECAUTION:** For all products with shrink wrap sleeves, washing in any type of cleaning agent is prohibited. During all soldering processes, it's recommended to protect the shrink wrap from any kind of liquid (including but not limited to: water, strong acid, strong alkali, strong oxidizing solutions, and strong solvents) to avoid the risk of damage, cracking, and fading of the outer shrink wrap.

### HAND SOLDERING

Keep some distance between the SuperCapacitor body and the tip of the soldering iron; contact between SuperCapacitor body and soldering iron will cause extensive damage to the SuperCapacitor. It is recommended that the soldering iron temperature should be less than 350°C, and contact time should be limited to no more than 4 seconds. Too much exposure to terminal heat during soldering can cause heat to transfer to the body of the SuperCapacitor, potentially damaging the SuperCapacitor.

### WAVE SOLDERING

Only use wave soldering on Radial type SuperCapacitors. The PCB should be preheated only from the bottom and for less than 60 seconds, with temperature at, or below, 100°C on the top side of the board for PCBs equal to or greater than 0.8 mm thick.

Solder Temperature (°C)	Suggested Solder Time (s)	Maximum Solder Time (s)
220	7	9
240	7	9
250	5	7
260	3	5

### SAFETY RECOMMENDATIONS

#### WARNINGS

- To avoid short circuit, after usage or test, SuperCapacitor voltage needs to discharge to  $\leq 0.1V$
- Do not apply over-voltage, reverse charge, burn or heat higher than 150°C, explosion-proof valve may break open
- Do not press, damage or disassemble the SuperCapacitor, housing could heat to high temperature causing burns
- If you observe overheating or burning smell from the capacitor disconnect power immediately, and do not touch

#### EMERGENCY APPLICATIONS

If housing is leaking:

- Skin contact: use soap and water thoroughly to wash the area of the skin
- Eye contact: flush with flowing water or saline, and immediately seek medical treatment
- Ingestion: immediately wash with water and seek medical treatment

#### TRANSPORTATION

Not subjected to US DOT or IATA regulations UN3499, <10Wh, Non-Hazardous Goods International shipping description – “Electronic Products – Capacitor”

#### REGULATORY

- UL 810A
- RoHS Compliant
- REACH Compliant
- Halogen free according to IEC 61249-2-21: 2003 and IPC/JEDEC-J-STD-709

#### STORAGE

Capacitors may be stored within the temperature range of -40°C to +70°C with humidity < 60%. Lower storage temperature is preferred as it extends the shelf life of the capacitor. Product over one year and within two years of the date code, we recommend recharging the product at the beginning of use for at least 24 hours.

Optimum storage conditions are as follows:

- 25°C and RH  $\leq 60\%$  without voltage applied
- Not in direct sunlight
- Not in direct contact with water, salt oil or other chemicals
- Not in direct contact with corrosive materials, acids, alkalis, or toxic gases
- Not in dusty environments
- Not in environments with shock and vibration conditions

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Authorized Distributor

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## KYOCERA AVX:

<a href="#"><u>SCMR22C155MSBA0</u></a>	<a href="#"><u>SCMR14C474MRBA0</u></a>	<a href="#"><u>SCMS22C255MRBA0</u></a>	<a href="#"><u>SCMR14C474MSBA0</u></a>	<a href="#"><u>SCMT32C755MRBA0</u></a>
<a href="#"><u>SCMR22C155MRBA0</u></a>	<a href="#"><u>SCMR18C105MRBA0</u></a>	<a href="#"><u>SCMR18C105MSBA0</u></a>	<a href="#"><u>SCMT22C505MRBA0</u></a>	<a href="#"><u>SCMQ14C474MRBA0</u></a>
<a href="#"><u>SCMR14L334MRBB0</u></a>	<a href="#"><u>SCMR18L604MRBB0</u></a>	<a href="#"><u>SCMR14G334MRBA0</u></a>	<a href="#"><u>SCMQ14F474MRBA0</u></a>	<a href="#"><u>SCMQ14H474SRBB0</u></a>
<a href="#"><u>SCMT32F755MRBA0</u></a>	<a href="#"><u>SCMR18F105MRBA0</u></a>	<a href="#"><u>SCMS32H505MRBB0</u></a>	<a href="#"><u>SCMS22H255MRBB0</u></a>	<a href="#"><u>SCMR18G604MRBA0</u></a>
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<a href="#"><u>SCMR18D105MRBB0</u></a>	<a href="#"><u>SCMR22D155MRBB0</u></a>	<a href="#"><u>SCMR14D474MRBB0</u></a>	<a href="#"><u>SCMT22D505MRBB0</u></a>	<a href="#"><u>SCMT32D755MRBB0</u></a>
<a href="#"><u>SCMQ14D474MRBB0</u></a>	<a href="#"><u>SCMR18D105MSBB0</u></a>	<a href="#"><u>SCMR14D474MSBB0</u></a>	<a href="#"><u>SCMR22D155MSBB0</u></a>	<a href="#"><u>SCMS22D255MRBB0</u></a>
<a href="#"><u>SCMR22F155MSBA0</u></a>	<a href="#"><u>SCMR18F105MSBA0</u></a>	<a href="#"><u>SCMR14F474MSBA0</u></a>	<a href="#"><u>SCMR18H105MSBB0</u></a>	<a href="#"><u>SCMR22H155MSBB0</u></a>
<a href="#"><u>SCMR14H474MSBB0</u></a>	<a href="#"><u>SCMR14J334MSBA0</u></a>	<a href="#"><u>SCMR18J604MSBA0</u></a>	<a href="#"><u>SCMR22L105MSBB0</u></a>	<a href="#"><u>SCMR18L604MSBB0</u></a>
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