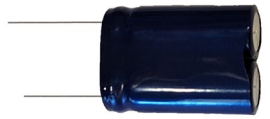


# Series-Connected Supercapacitor Module, 6.0V



**ADCM-S06R0S**

Request Samples



Check Inventory



Various Sizes

RoHS/RoHS II Compliant

MSL Level = 1

## Features

- Assembled Type Supercapacitor
- Series connected 2-Cell configuration.
- No balancing required.
- High power density
- Minimal discharge rate, 72 hours @ discharge < 20%
- Excellent cycle life
- Green, meet RoHS requirements.

## Applications

- Power Assist Circuits
- Power Backup
- Micro Energy Storage
- IoT Energy Harvesting
- SSD applications
- DDR power back up
- RTC System power transfer to battery backup

## Electrical Specifications

Part Number	Nominal Voltage (U <sub>R</sub> )	Capacitance	Tol.	ESR (Max)	Nominal Current	Peak Current (Max)	Leakage Current (Max)	Stored Energy (Max)	Gravimetric Energy Density	Gravimetric Power Density
ADCM-S06R0S	DC(V)	Farads	±%	Ω	A	A	uA	mWh	Wh/kg	Wh/L
ADCM-S06R0SA104PB	6.0	0.1	0/+100	6.00	0.054	0.188	3	0.50	0.63	1.88
ADCM-S06R0SA224XB	6.0	0.22	0/+50	2.20	0.12	0.44	4	1.10	0.91	3.38
ADCM-S06R0SA334WB	6.0	0.33	0/+40	1.65	0.18	0.64	4	1.65	0.80	2.65
ADCM-S06R0SA474WB	6.0	0.47	0/+40	0.900	0.26	0.99	5	2.35	1.12	4.76
ADCM-S06R0SA105RB	6.0	1	0/+30	0.720	0.52	1.74	8	5.00	1.82	4.56
ADCM-S06R0SA155RB	6.0	1.5	0/+40	0.420	0.80	2.76	14	7.50	2.25	6.42
ADCM-S06R0SA205RB	6.0	2	0/+30	0.320	1.06	3.66	10	10.00	2.86	8.04
ADCM-S06R0SA305RB	6.0	3	0/+30	0.230	1.58	5.33	16	15.00	3.11	8.10
ADCM-S06R0SA505QB	6.0	5	-10/+20	0.180	2.54	7.89	30	25.00	4.19	8.39
ADCM-S06R0SA605RB	6.0	6	0/+30	0.140	3.08	9.78	36	30.00	4.13	8.85
ADCM-S06R0SA106RB	6.0	10	0/+30	0.090	5.08	15.79	60	50.00	4.10	8.20
ADCM-S06R0SA126RB	6.0	12	0/+30	0.090	5.92	17.31	80	60.00	3.85	6.41

**Operating Temperature:** -40°C to +65°C

**Storage Temperature:** -40°C to +65°C, RH<60%, Max. Humidity <85% RH

**Test Conditions:**

All parameters are measured according to the IEC 62391-1 standard.

**Ambient Temperature:** +25°C

**Capacitance:** measured with  $I(mA) = 4(C * U_R)$ .

**ESR:** Measured at 1KHz.

**Nominal Current:** 5 Seconds to discharge from U<sub>R</sub> to 1/2U<sub>R</sub>.

**Peak Current (Max.):** 1 second to discharge to U<sub>R</sub> to 1/2U<sub>R</sub>.

**Leakage Current:** Measured after 72h at U<sub>R</sub>.

**Life Cycles:** 500,000 cycles with less than 30% change in capacitance.

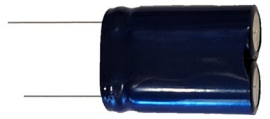


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REVISION Initial Release :  
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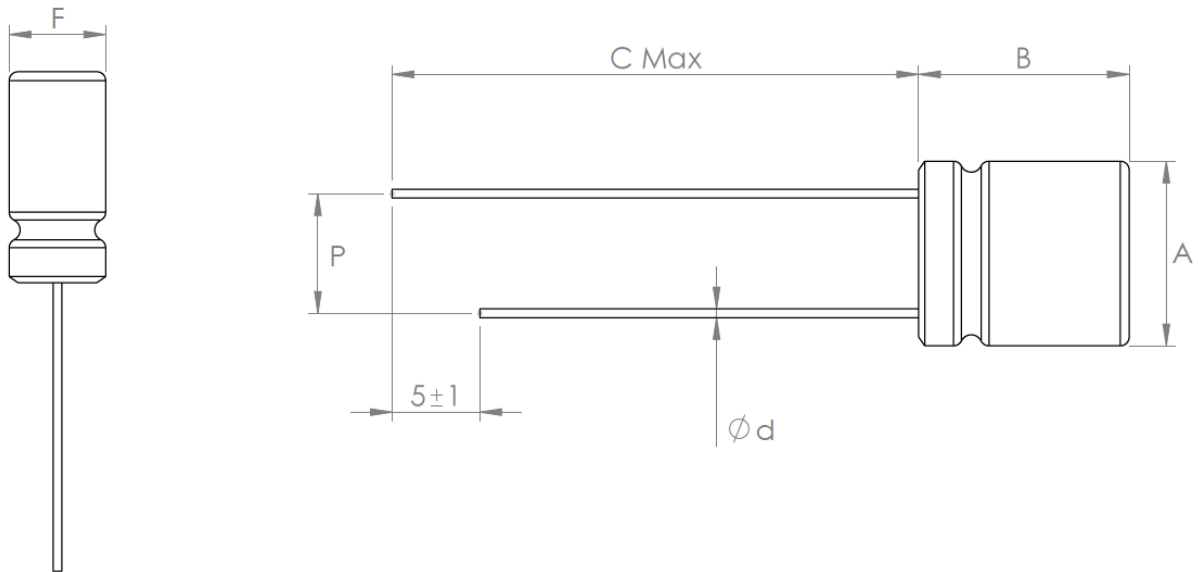


Various Sizes

RoHS/RoHS II Compliant

MSL Level = 1

## Mechanical Specifications



ABRACON PART#	SIZE (A x F x B) ±1	Pin Spacing P	Pin Length C (MAX)	Pin Diameter Ød
ADCM-S06R0SA104PB	10.5 x 5.5 x 12	6.8 ±0.5	30	0.5 ±0.05
ADCM-S06R0SA474WB	18.1 x 9.6 x 18	11.5 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA105RB	16.5 x 8.5 x 15	12.0 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA155RB	16.5 x 8.5 x 22	12.0 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA205RB	20.5 x 10.5 x 19	15.3 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA505QB	20.5 x 10.5 x 27	15.3 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA605RB	20.5 x 10.5 x 33.5	15.3 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA106RB	25.5 x 13 x 36	17.8 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA224XB	13.5 x 7.5 x 15	9.0 ±0.5	30	0.5 ±0.05
ADCM-S06R0SA334WB	16.5 x 8.5 x 15	12.0 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA305RB	20.5 x 10.5 x 22	15.3 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA126RB	32.5 x 16.5 x 28	24.0 ±0.5	30	0.8 ±0.05

Dimensions: mm

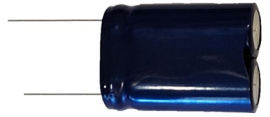


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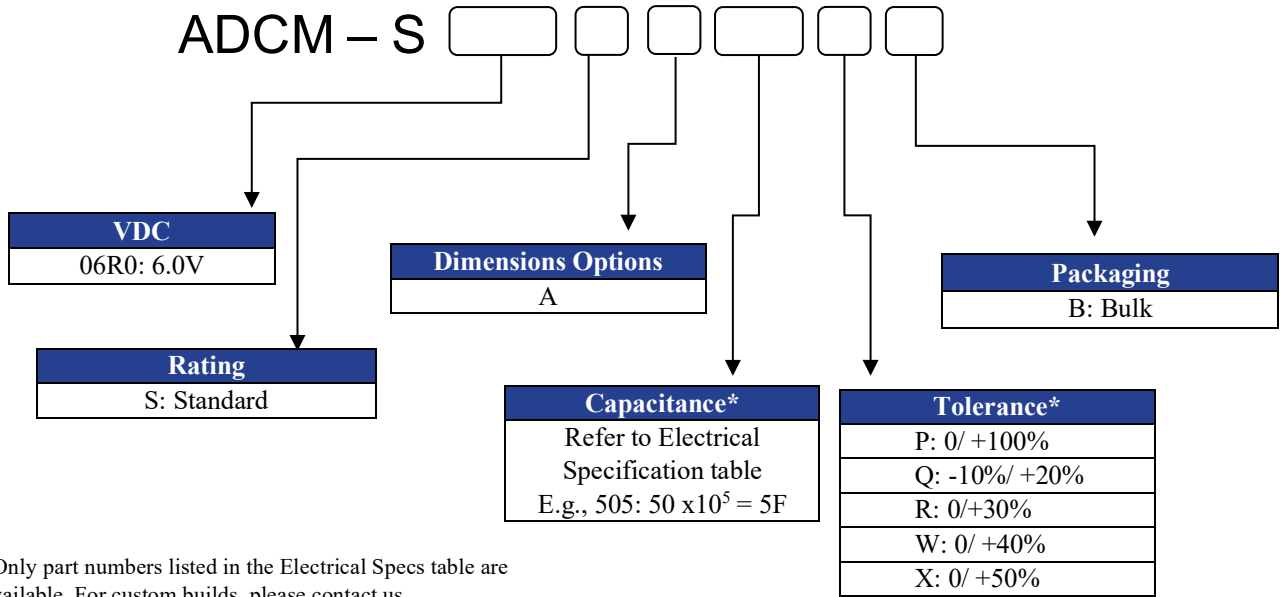


Various Sizes

RoHS/RoHS II Compliant

MSL Level = 1

## Part Number Identification



## Part Marking



Example of the Marking of a 6.0V 1.0F Supercapacitor

Capacitance (F)

Rated Voltage (V)

Polarity (negative bar indicator on the sleeve to indicate the cathode).



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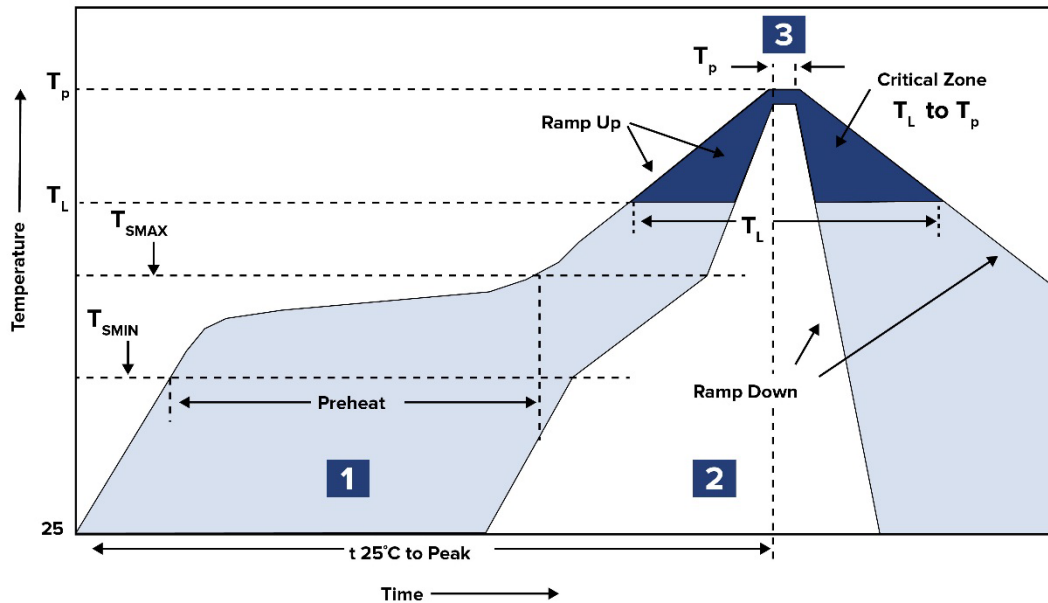


Various Sizes

RoHS/RoHS II Compliant

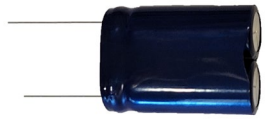
MSL Level = 1

## Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 100°C ~ 150°C	60 ~ 120 sec.
2	Reflow	$T_L$ 200°C	30 ~ 40 sec.
3	Peak heat	$T_p$ 240°C±5°C	5 sec. MAX

# Series-Connected Supercapacitor Module, 6.0V



ADCM-S06R0S

Request Samples



Check Inventory



Various Sizes

RoHS/RoHS II Compliant

MSL Level = 1

## Packaging

Part Number	Pcs/Box	Pcs/Carton
ADCM-S06R0SA104PB	768	4608
ADCM-S06R0SA224XB	512	3072
ADCM-S06R0SA474WB	320	1920
ADCM-S06R0SA105RB	224	1344
ADCM-S06R0SA155RB	224	1344
ADCM-S06R0SA334WB	224	1344
ADCM-S06R0SA305RB	192	1152
ADCM-S06R0SA205RB	120	720
ADCM-S06R0SA505QB	120	720
ADCM-S06R0SA605RB	120	720
ADCM-S06R0SA106RB	80	480
ADCM-S06R0SA126RB	80	480

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