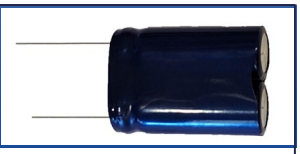
Series-Connected Supercapacitor Module, 6.0V



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.
- 85°C operation at derated voltage of 5.0V

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_R)	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 (+85°C @ 5.0V U_R), RH<60%
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.
Maximum Surge Voltage: 6.2V ≤ 30 seconds
Nominal Current: 5 Seconds to discharge from U_R to 1/2U_R.
Peak Current (Max.): 1 second to discharge to U_R to 1/2U_R.
Leakage Current: Measured after 72h at U_R.
Life Cycles: 500,000 cycles with less than 30% change in capacitance.

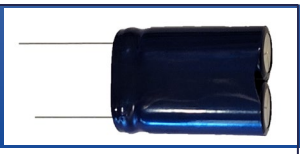
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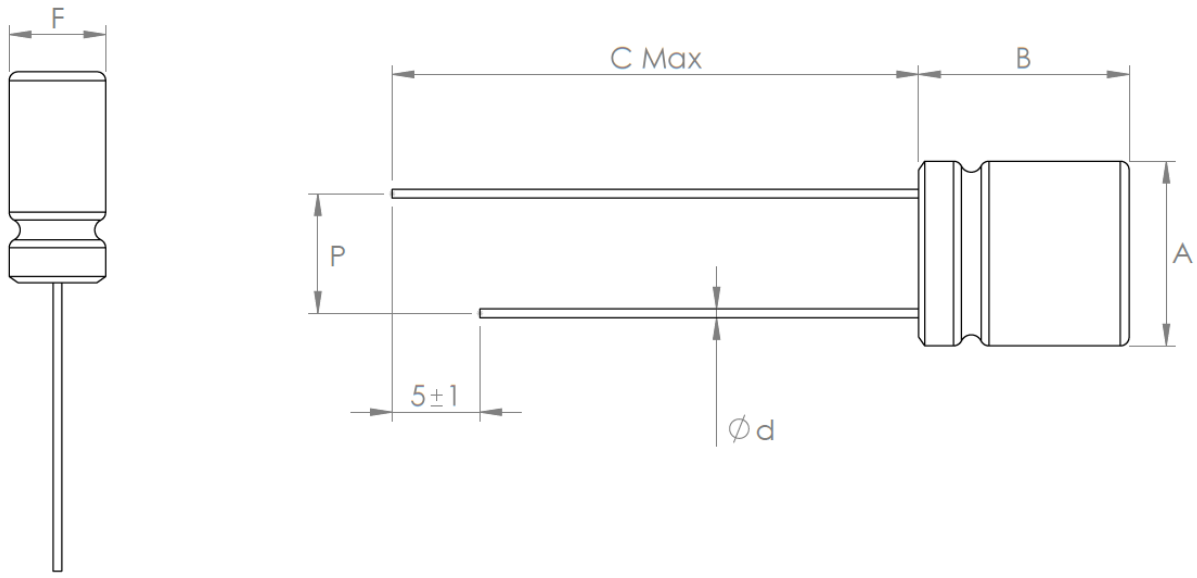


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Various Sizes
RoHS/RoHS II Compliant
MSL Level = 1

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	16.5 x 8.5 x 15	12.0 ±0.5	30	0.6 ±0.1
ADCM-S06R0SA105RB	16.5 x 8.5 x 22	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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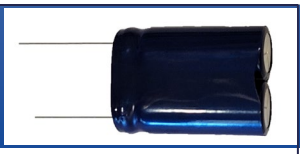
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Part Number Identification

ADCM – S [ ] [ ] [ ] [ ] [ ] [ ]

VDC
06R0: 6.0V

Rating
S: Standard

Dimensions Options
A

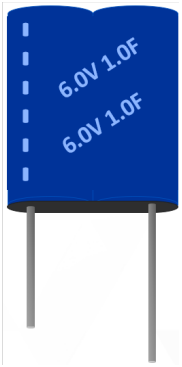
Capacitance*
Refer to Electrical Specification table
E.g., 505: 50 x10^5 = 5F

Tolerance*
P: 0/ +100%
Q: -10%/ +20%
R: 0/+30%
W: 0/ +40%
X: 0/ +50%

Packaging
B: Bulk

*Only part numbers listed in the Electrical Specs table are available. For custom builds, please contact us.

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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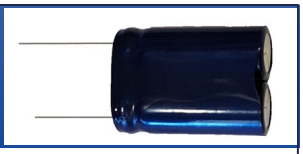
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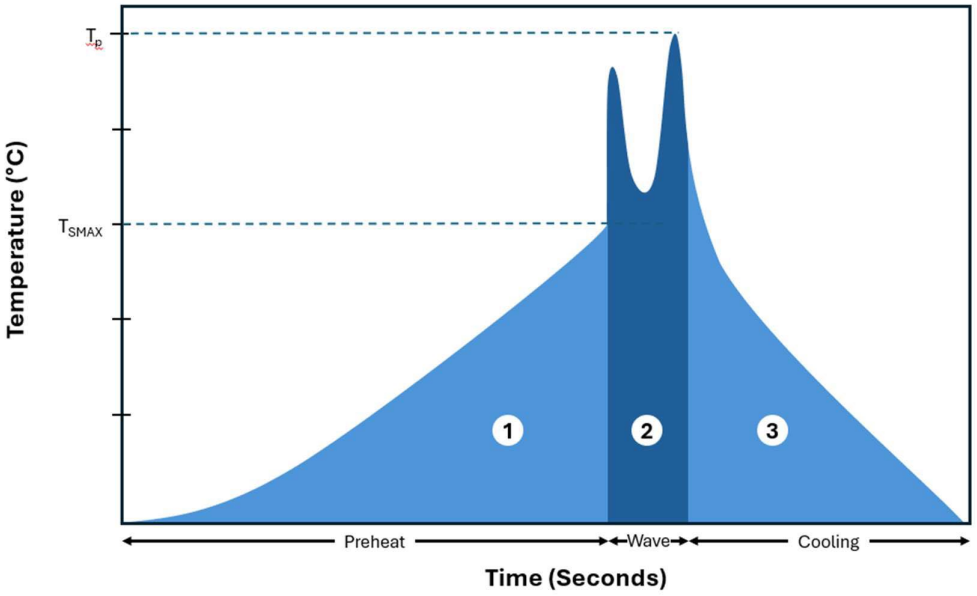


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Wave Soldering Profile



Zone	Description	Temperature	Times
1	Preheat	T_{SMIN} ~ T_{SMAX} 25°C ~ 130°C	80 sec. MAX
	Preheat Rate	$T_{PREHEAT}$ +4ºC/Sec MAX	
2	Wave Temperature	T_w 245°C ~ 260°C	10 sec. MAX Dual wave
	Wave Peak Temperature	T_P 260°C	5 sec. MAX/wave
3	Cooling Rate	$T_{COOLING}$	-5ºC/Sec MAX

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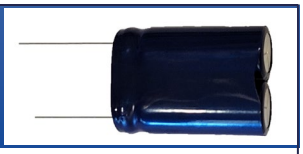
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Packaging

The product is packaged in a carton containing multiple inner boxes, each containing several trays.

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

Transport of Product

This product is not subject to US DOT or IATA regulations UN3499 since maximum stored energy is below 10Wh and can be considered Non-Hazardous Goods. Please refer to the Abracon | UN/IATA Transportation Guidelines for more information.

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.

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