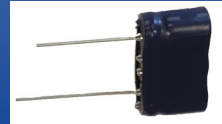


Series-Connected Supercapacitor Module, 7.5V



ADCM-S07R5S

Request Samples



Check Inventory



Various Sizes

RoHS/RoHS II Compliant

MSL Level = 1

Features

- Assembled Type Supercapacitor
- Series connected 3-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 _R) | Capacitance | Tol. | ESR (Max) | Nominal Current | Peak Current (Max) | Leakage Current (Max) | Stored Energy (Max) | Gravimetric Energy Density | Gravimetric Power Density |
|-------------------|-----------------------------------|-------------|---------|-----------|-----------------|--------------------|-----------------------|---------------------|----------------------------|---------------------------|
| ADCM-S07R5S | DC(V) | Farads | ±% | Ω | A | A | uA | mWh | Wh/kg | KW/kg |
| ADCM-S07R5SA224WB | 7.5 | 0.22 | 0/+40 | 1.35 | 0.16 | 0.64 | 4 | 1.72 | 0.57 | 3.47 |
| ADCM-S07R5SA334RB | 7.5 | 0.33 | 0/+30 | 1.35 | 0.23 | 0.86 | 5 | 2.58 | 0.75 | 3.02 |
| ADCM-S07R5SA105QB | 7.5 | 1.00 | -10/+20 | 0.720 | 0.66 | 2.18 | 10 | 7.81 | 1.63 | 4.07 |

Operating Temperature: -40°C to +70°C

Storage Temperature: -40°C to +70°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_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.

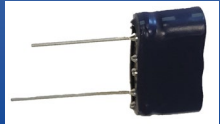


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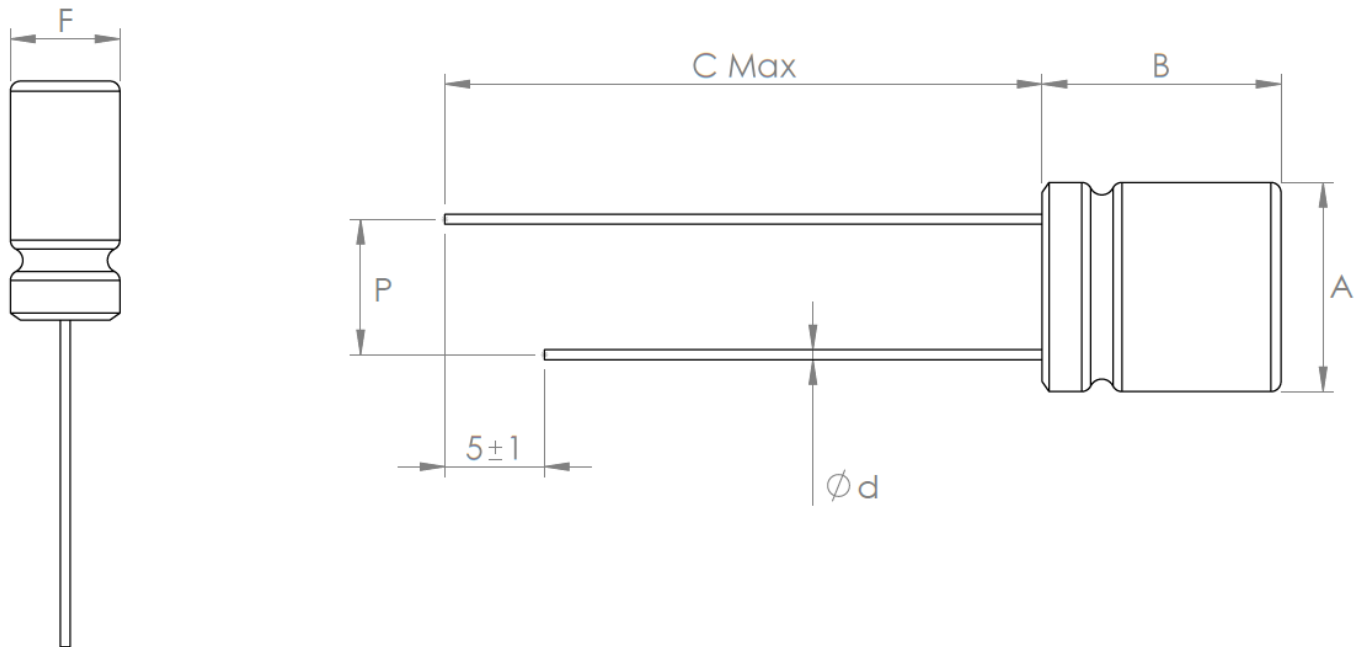


Various Sizes

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-S07R5SA224WB | 24.5 x 8.5 x 15 | 13.3 ±0.5 | 30 | 0.6 ±0.1 |
| ADCM-S07R5SA334RB | 24.5 x 8.5 x 15 | 13.3 ±0.5 | 30 | 0.6 ±0.1 |
| ADCM-S07R5SA105QB | 24.5 x 8.5 x 22 | 13.3 ±0.5 | 30 | 0.6 ±0.1 |

Dimensions: mm

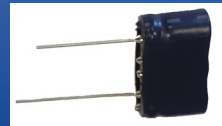


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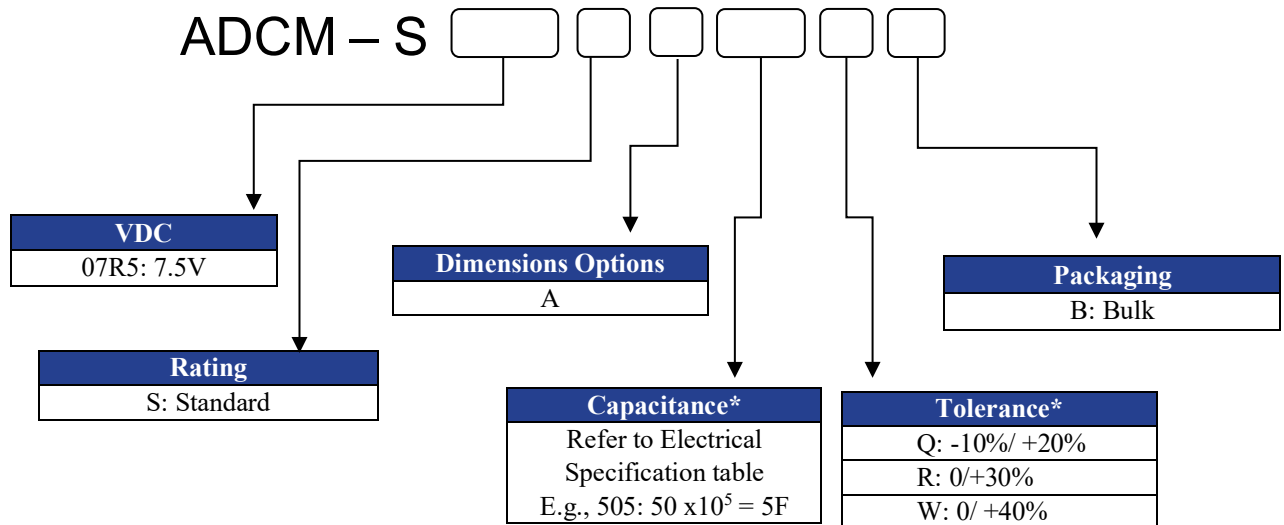


Various Sizes

RoHS/RoHS II Compliant

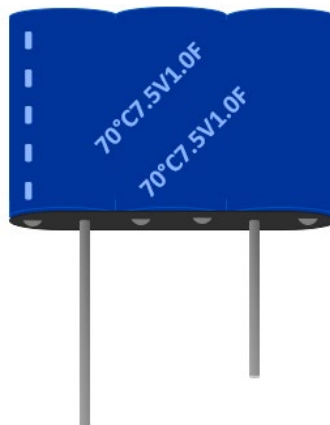
MSL Level = 1

Part Number Identification



*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 7.5V 1.0F Supercapacitor

Capacitance (F)

Rated Voltage (V)

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

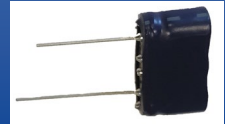


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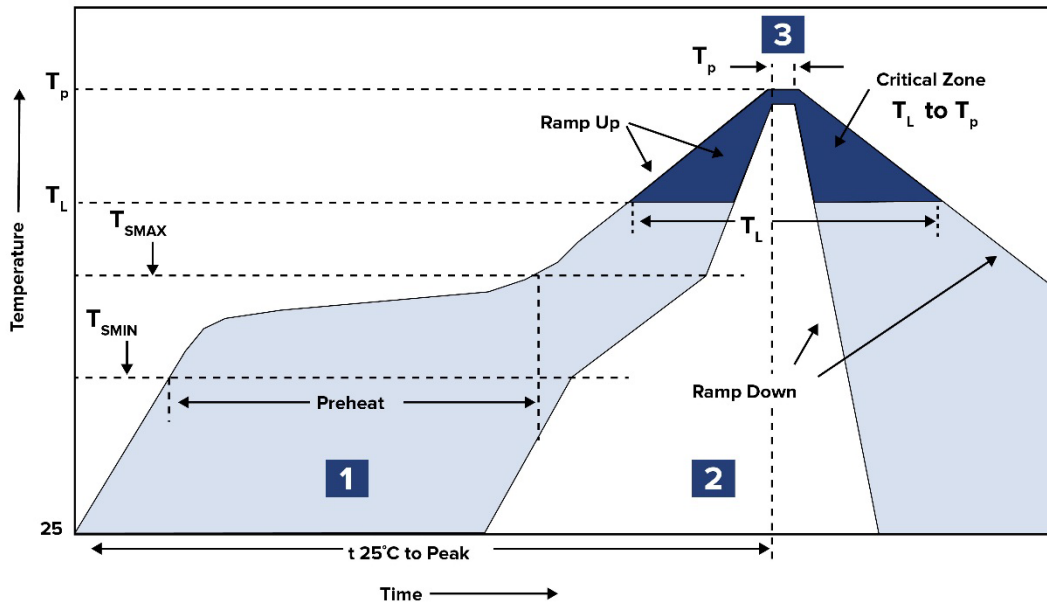


Various Sizes

RoHS/RoHS II Compliant

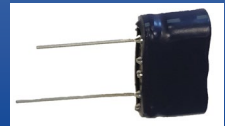
MSL Level = 1

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, 7.5V



ADCM-S07R5S

Request Samples



Check Inventory



Various Sizes

RoHS/RoHS II Compliant

MSL Level = 1

Packaging

| Part Number | Pcs/Box | Pcs/Carton |
|-------------------|---------|------------|
| ADCM-S07R5SA224WB | 341 | 1023 |
| ADCM-S07R5SA334RB | 149 | 447 |
| ADCM-S07R5SA105QB | 149 | 447 |

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