

- Assembled Type Supercapacitor
- Series connected 3-Cell configuration.
- No balancing required.
- High power density
- Minimal discharge rate, 72 hours @ discharge<20%
- Excellent cycle life

Electrical Specifications

• Green, meet RoHS requirements.

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

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	А	А	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 $1/2U_R$.

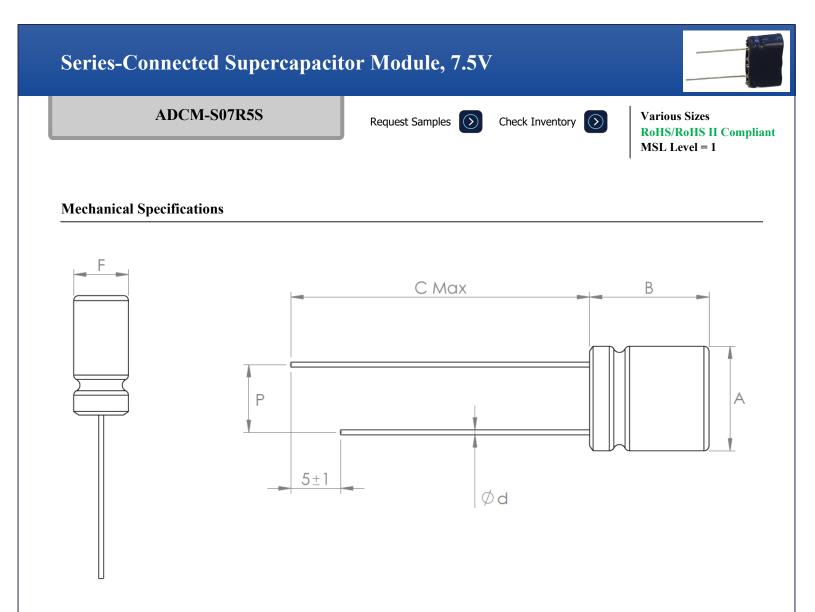
Leakage Current: Measured after 72h at U_{R.}

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



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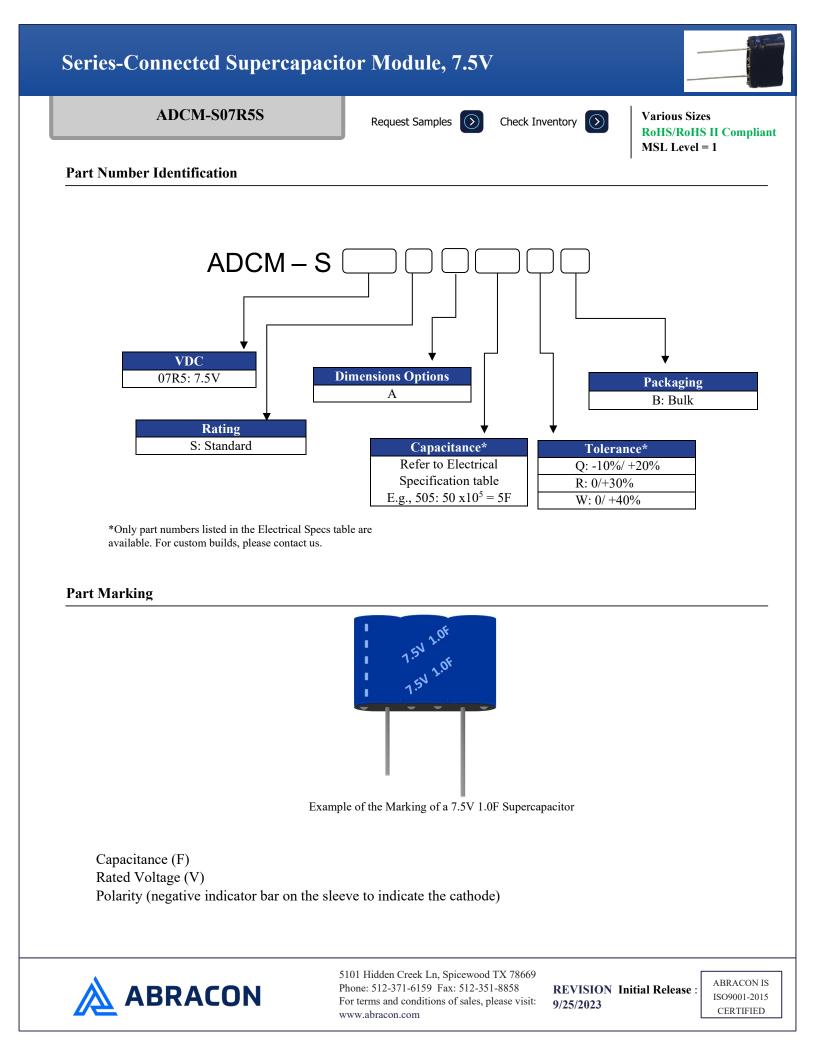
ABRACON PART#	SIZE (A x F x B) ±1	Pin Spacing P	Pin Length C (MAX)	Pin Diameter Ød
ADCM-S07R5SA224WB	24.5 x 8.5 x 15	13.3 ±0.5	30	0.6 ±0.1
ADCM-S07R5SA334RB	24.5 x 8.5 x 15	13.3 ±0.5	30	0.6 ±0.1
ADCM-S07R5SA105QB	24.5 x 8.5 x 22	13.3 ±0.5	30	0.6 ±0.1

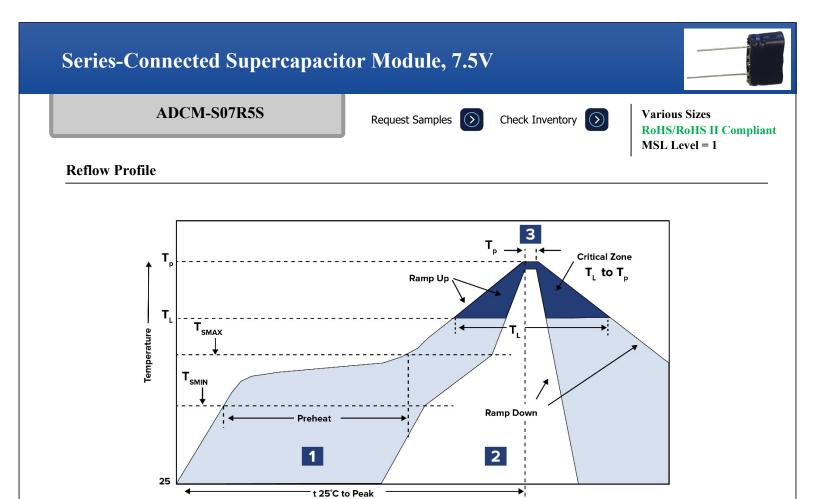
Dimensions: mm



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Zone	Description	Temperature	Times
1	Preheat	$\begin{array}{l} T_{SMIN} \sim T_{SMAX} \\ 100^{\circ}C \sim 150^{\circ}C \end{array}$	$60 \sim 120$ sec.
2	Reflow	T_{L} 200°C	$30 \sim 40$ sec.
3	Peak heat	T_P 240°C±5°C	5 sec. MAX

Time -



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Packaging

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

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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