

- DDR power back up
  - RTC System power transfer to battery backup

## **Electrical Specifications**

Part Number	Nominal Voltage (U <sub>R</sub> )		Tol.	ESR (Max)	Nominal Current	Peak Current (Max)	Leakage Current (Max)	Stored Energy (Max)	Gravimetric Energy Density	Volumetric Energy Density
ADCH-S05R5S	DC(V)	Farads	±%	Ω	А	А	uA	mWh	Wh/kg	Wh/L
ADCH-S05R5SA473W	5.5V	0.047	-20%/ 100%	120	0.010	0.014	3	0.197	0.146	0.380
ADCH-S05R5SA104X	5.5V	0.1	-20%/ 150%	50	0.022	0.032	3	0.420	0.311	0.809
ADCH-S05R5SA224W	5.5V	0.22	-20%/ 100%	40	0.033	0.043	4	0.924	0.685	1.780
ADCH-S05R5SB224W	5.5V	0.22	-20%/ 100%	40	0.033	0.043	4	0.924	0.685	1.780
ADCH-S05R5SA334Z	5.5V	0.33	-20%/ 80%	40	0.037	0.044	5	1.386	1.027	2.670
ADCH-S05R5SA474Q	5.5V	0.47	-10%/ 30%	40	0.039	0.044	6	1.975	1.463	3.802
ADCH-S05R5SA105R	5.5V	1	0/+30%	15	0.100	0.117	8	4.201	0.977	2.886
ADCH-S05R5SA155R	5.5V	1.5	0/+30%	10	0.150	0.176	12	6.302	1.466	4.329

**Operating Temperature: -**25°C to +70°C

Storage Temperature: -30°C to +50°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<sub>R</sub>.

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



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ABRACON PART#	PIN TYPE	SIZE D x L x H	PIN SPACING P	PIN WIDTH w/w1	PIN LENGTH h1/h2	LEAD THICKNESS T
ADCH-S05R5SA473W	В	11.5 x 5.0 x 6.4	10.5	0.8/3.0	5.0/5.0	0.2
ADCH-S05R5SA104X	В	11.5 x 5.0 x 6.4	10.5	0.8/3.0	5.0/5.0	0.2
ADCH-S05R5SA224W	В	11.5 x 5.0 x 6.4	10.5	0.8/3.0	5.0/5.0	0.2
ADCH-S05R5SB224W	В	11.5 x 5.0 x 6.4	10.5	0.8/3.0	2.6/2.6	0.2
ADCH-S05R5SA334Z	В	11.5 x 5.0 x 6.4	10.5	0.8/3.0	5.0/5.0	0.2
ADCH-S05R5SA474Q	В	11.5 x 5.0 x 6.4	10.5	0.8/3.0	5.0/5.0	0.2
ADCH-S05R5SA105R	А	18.7 x 5.3 x 6.0	20	1/6.0	3.7/3.7	0.2
ADCH-S05R5SA155R	А	18.7 x 5.3 x 6.0	20	1/6.0	3.7/3.7	0.2

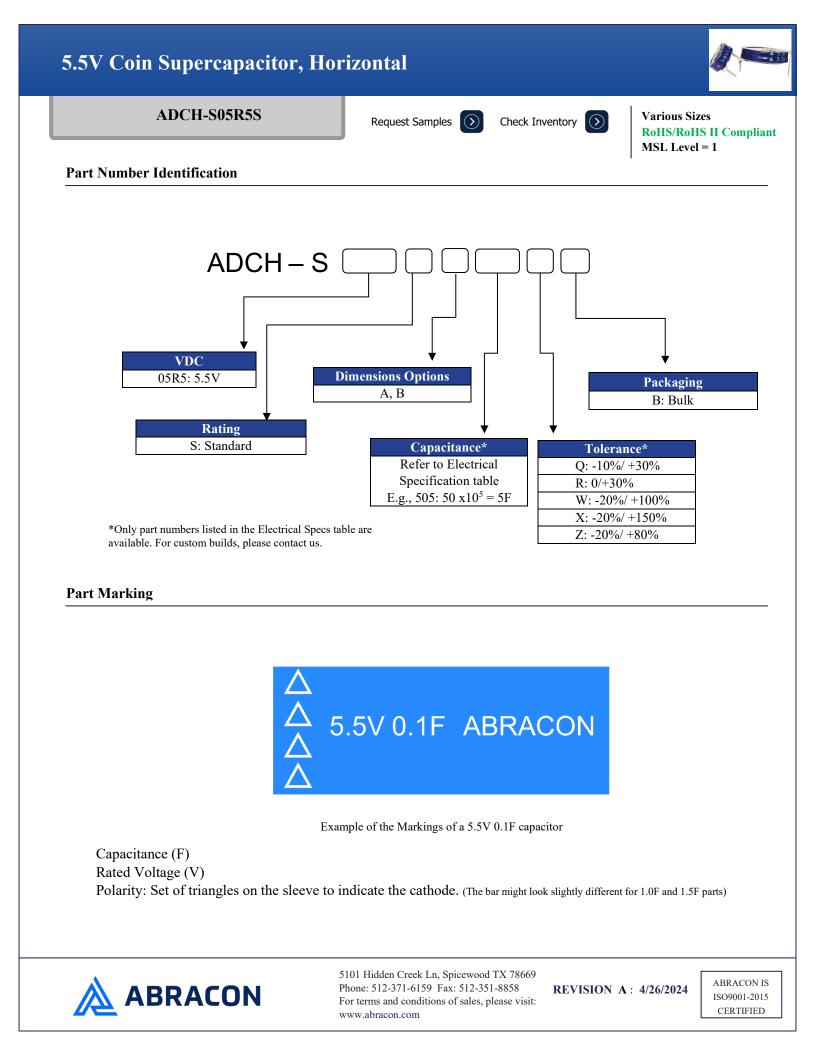
## **Dimensions: mm**

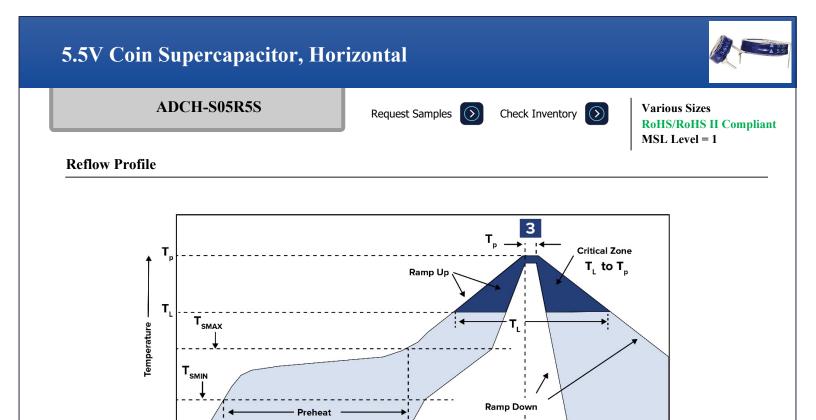


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Zone	Description	Temperature	Times
1	Preheat	$\begin{array}{l} T_{SMIN} \sim T_{SMAX} \\ 100^{\circ}C \sim 150^{\circ}C \end{array}$	$60 \sim 120$ sec.
2	Reflow	$T_L$ 200°C	$30 \sim 40$ sec.
3	Peak heat	$T_P$ 240°C±5°C	5 sec. MAX

1

t 25°C to Peak Time ----- 2



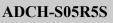
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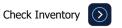
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## 5.5V Coin Supercapacitor, Horizontal



Request Samples 🕥



Various Sizes RoHS/RoHS II Compliant MSL Level = 1

## Packaging

Part Number	Quantity (PCS/Box)
ADCH-S05R5SA473WB	1300
ADCH-S05R5SA104XB	1300
ADCH-S05R5SA224WB	1300
ADCH-S05R5SB224WB	1300
ADCH-S05R5SA334ZB	1300
ADCH-S05R5SA474QB	1300
ADCH-S05R5SA105RB	672
ADCH-S05R5SA155RB	672

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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