

5.5V Coin Supercapacitor, Vertical



ADCV-S05R5S

Request Samples



Check Inventory



Various Sizes

RoHS/RoHS II Compliant

MSL Level = 1

Features

- Coin Type Supercapacitor
- Vertical Configuration
- 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	Volumetric Energy Density
ADCV-S05R5S	DC(V)	Farads	±%	Ω	A	A	uA	mWh	Wh/kg	Wh/L
ADCV-S05R5SA473W	5.5V	0.047	-20%/ 100%	120	0.010	0.014	3	0.197	0.156	0.380
ADCV-S05R5SA104X	5.5V	0.1	-20%/ 150%	50	0.022	0.032	3	0.420	0.303	0.809
ADCV-S05R5SA224W	5.5V	0.22	-20%/ 100%	40	0.033	0.043	4	0.924	0.707	1.780
ADCV-S05R5SA334Z	5.5V	0.33	-20%/ 80%	40	0.037	0.044	5	1.386	0.998	2.670
ADCV-S05R5SA474Q	5.5V	0.47	-10%/ 30%	40	0.039	0.044	6	1.975	1.412	3.802
ADCV-S05R5SA105R	5.5V	1	0/+30%	15	0.100	0.117	8	4.201	1.004	2.833
ADCV-S05R5SA155R	5.5V	1.5	0/+30%	10	0.150	0.176	12	6.302	1.488	4.249

Operating Temperature: -25°C to +70°C

Storage Temperature: -30°C to +50°C, RH < 60%, Max. Humidity < 85% RH

Maximum Surge Voltage: 5.7V ≤ 30 seconds

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.



5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
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www.abracon.com

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ABRACON IS
ISO9001-2015
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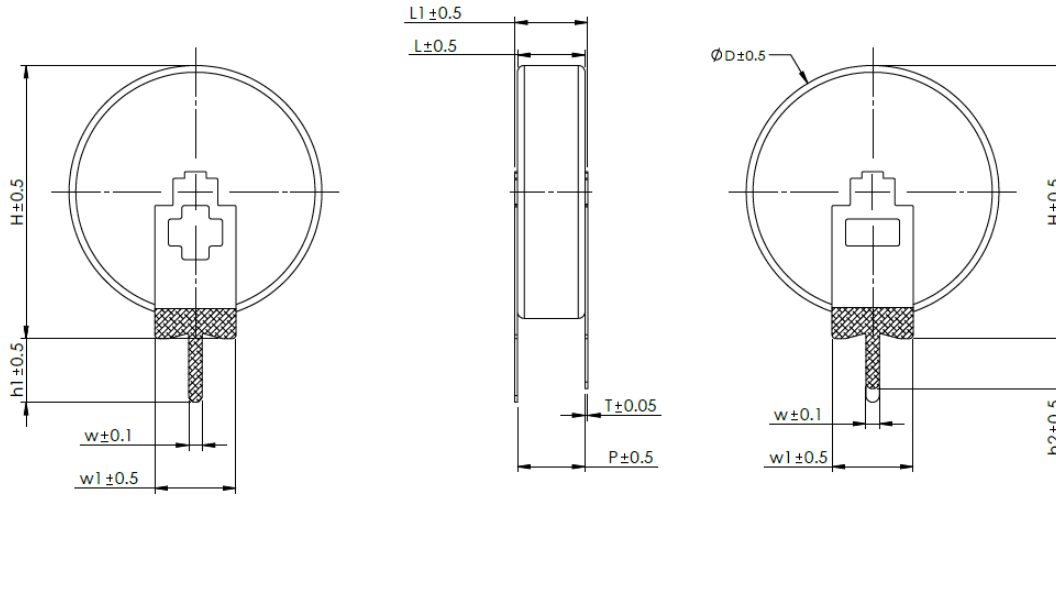


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Mechanical Specifications



ABRACON PART#	SIZE D x L x H	TOTAL THICKNESS L1	PIN SPACING P	PIN WIDTH w/w1	PIN LENGTH h1/h2	LEAD THICKNESS T
ADCV-S05R5SA473W	11.5 x 4.6 x 12.3	5.0	4.7	1/3.0	4.7/3.7	0.2
ADCV-S05R5SA104X	11.5 x 4.6 x 12.3	5.0	4.7	1/3.0	4.7/3.7	0.2
ADCV-S05R5SA224W	11.5 x 4.6 x 12.3	5.0	4.7	1/3.0	4.7/3.7	0.2
ADCV-S05R5SA334Z	11.5 x 4.6 x 12.3	5.0	4.7	1/3.0	4.7/3.7	0.2
ADCV-S05R5SA474Q	11.5 x 4.6 x 12.3	5.0	4.7	1/3.0	4.7/3.7	0.2
ADCV-S05R5SA105R	18.7 x 5.0 x 20.2	5.4	5.0	1/6.0	4.7/3.7	0.2
ADCV-S05R5SA155R	18.7 x 5.0 x 20.2	5.4	5.0	1/6.0	4.7/3.7	0.2

Dimensions: mm



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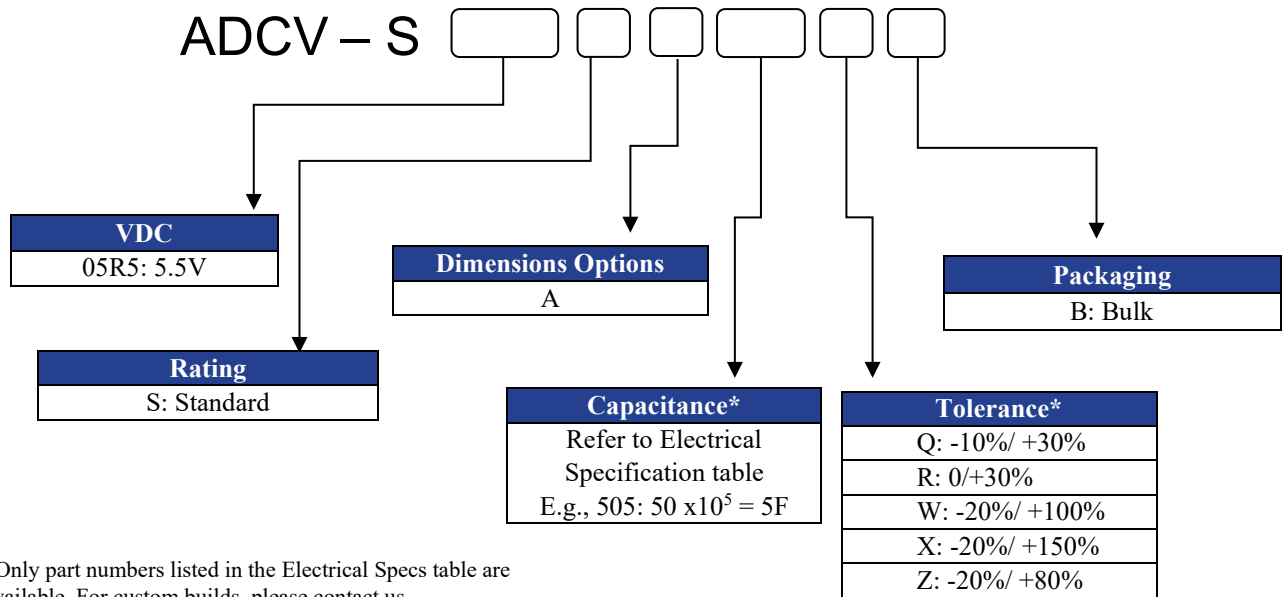


Various Sizes

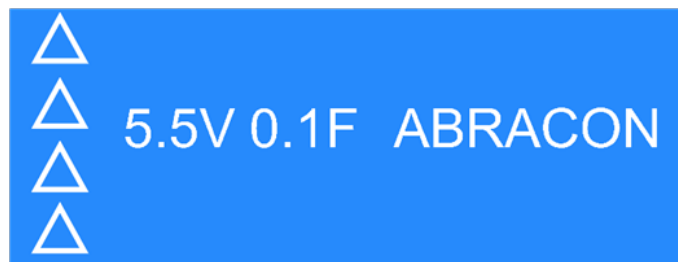
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Part Number Identification



Part Marking



Example of the Markings of a 5.5V 0.1F supercapacitor

Capacitance (F)

Rated Voltage (V)

Polarity (negative bar on the sleeve to indicate the cathode). (The bar might look slightly different for 1.0F and 1.5F parts)



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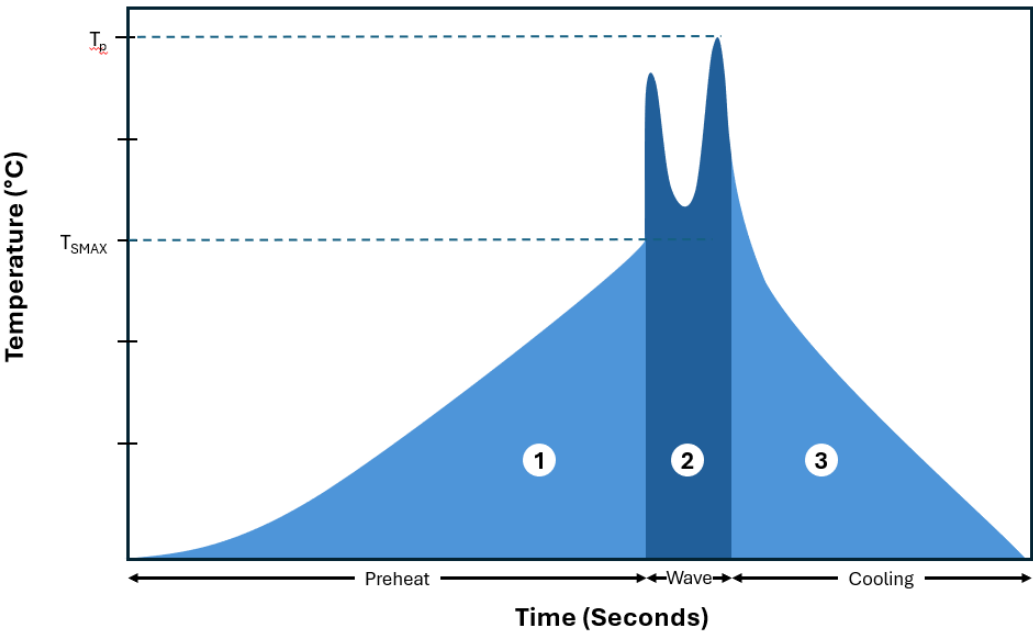


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Wave Soldering Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 25°C ~ 120°C	45 sec. MAX
	Preheat Rate	$T_{PREHEAT}$ +4°C/Sec MAX	
2	Wave Temperature	T_w 240°C ~ 260°C	5 sec. MAX
	Wave Peak Temperature	T_P 260°C	
3	Cooling Rate	$T_{COOLING}$	-5°C/Sec MAX

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Packaging

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

Part Number	Quantity (PCS/Box)
ADCV-S05R5SA473WB	2912
ADCV-S05R5SA104XB	2912
ADCV-S05R5SA224WB	2464
ADCV-S05R5SA334ZB	2464
ADCV-S05R5SA474QB	2408
ADCV-S05R5SA105RB	1134
ADCV-S05R5SA155RB	1134

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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