ABRACON

Engineering/Process Change Notice

ECN/PCN No.: M1738

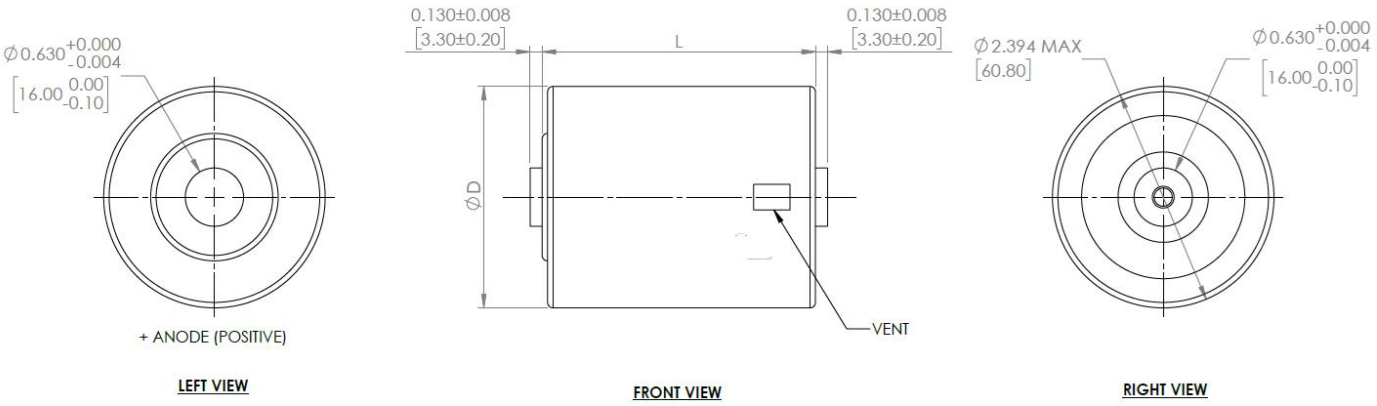
For Manufacturer			
Product Description: HIGH CAPACITANCE SUPERCAPACITORS	**Abracon Part Number / Part Series:** ADCP-E02R7SA308Q	☐ Documentation only ☒ ECN ☐ EOL	☐ Series ☒ Part Number(s)
Affected Revision: Initial Revision	**New Revision:** A	**Application:**	☐ Safety ☒ Non-Safety

Prior to Change:

Electrical Specifications

Part Number	Rated Voltage (U_R)	Surge Voltage (Max)	Capacitance	Tolerance	ESR (Max)		Continuous Current (Max)	Peak Current (Max)	Leakage Current	Stored Energy (Max)	Gravimetric Energy Density
ADCP-E02R7S	DC (V)	DC (V)	Farads	See Part number Identifier	AC ESR (mΩ)	DC ESR (mΩ)	A	A	mA	Wh	Wh/kg
ADCP-E02R7SA128	2.7	2.85	1200	Q, M	0.40	0.55	70	976	2.80	1.2150	4.67
ADCP-E02R7SA158	2.7	2.85	1500	Q, M	0.33	0.45	84	1209	3.00	1.5188	5.42
ADCP-E02R7SA208	2.7	2.85	2000	Q, M	0.25	0.35	110	1588	4.20	2.0250	5.63
ADCP-E02R7SA308	2.7	2.85	3000	Q, M	0.22	0.26	130	2275	5.20	3.0375	6.08

Mechanical Specifications



Part Number	Dimensions (ØD x L)	ØD (±1.5)	L (±0.3)
ADCP-E02R7SA128	60 x 75	60	75
ADCP-E02R7SA158	60 x 85	60	85
ADCP-E02R7SA208	60 x 105	60	105
ADCP-E02R7SA308	60 x 138	60	138

Dimensions: Inches [mm]

After Change:

Electrical Specifications

Part Number	Rated Voltage (U_R)	Surge Voltage (Max)	Capacitance	Tolerance	ESR (Max)		Continuous Current (Max)	Peak Current (Max)	Leakage Current	Stored Energy (Max)	Gravimetric Energy Density
ADCP-E02R7S	DC (V)	DC (V)	Farads	See Part number Identifier	AC ESR (mΩ)	DC ESR (mΩ)	A	A	mA	Wh	Wh/kg
ADCP-E02R7SA128	2.7	2.85	1200	Q, M	0.40	0.55	70	976	2.80	1.2150	4.67
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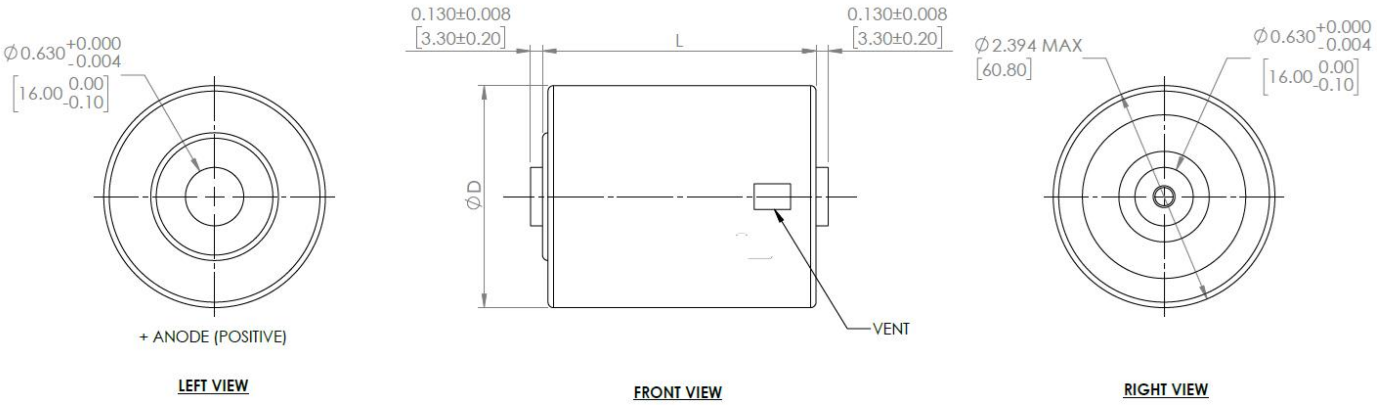
ADCP-E02R7SA208	2.7	2.85	2000	Q, M	0.25	0.35	110	1588	4.20	2.0250	5.63
ADCP-E02R7SA308	2.7	2.85	3000	Q, M	0.22	0.26	130	2528	5.20	3.750	7.2

Mechanical Specifications



Part Number	Dimensions (ØD x L)	ØD	L
ADCP-E02R7SA128	60 x 75	60 ±1.5	75 ±0.3
ADCP-E02R7SA158	60 x 85	60 ±1.5	85 ±0.3
ADCP-E02R7SA208	60 x 105	60 ±1.5	105 ±0.3
ADCP-E02R7SA308	60.5 x 138	60.5 ±0.5	138 ±0.5

Dimensions: Inches [mm]

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Engineering/Process Change Notice

Cause/Reason for Change:
Change of prodution line to increase capacity.

Change Plan

Effective Date:	**Additional Remarks:**
8/7/2026	

Change Declaration:
The changes described in this document do not adversely affect the products functionality. Slight changes to mechanical dimensions may affect the product's fit.

Issued Date:	**Issued By:**	**Issued Department:**
7/7/2026	*Gerald Capwell*	Engineering
Approval: *Gerald Capwell* Director, Engineering	**Approval:** *Reuben Quintanilla* Quality Director	**Approval:** *Ying Huang* Purchasing Director

For Abracon EOL only

Last Time Buy (if applicable):	**Alternate Part Number / Part Series:**

Additional Approval:	**Additional Approval:**	**Additional Approval:**

Customer Approval (If Applicable)

Qualification Status:

☐ Approved ☐ Not accepted

Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.

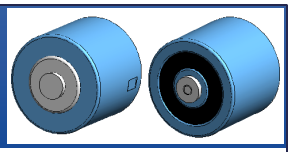
Customer Part Number:	**Customer Project:**

Company Name:	**Company Representative:**	**Representative Signature:**

Customer Remarks:

Brand	Affected PN	Discontinued/EOL PN	Added PN	Series	ECO#	Datasheet Link	ECN Notification Link
Abracon	ADCP-E02R7SA308Q			ADCP-E02R7SA	M1738	https://abracon.com/datasheets/ADCP-E02R7S.pdf	https://abracon.com/downloads/ECN-PCN/ECN-PCN-M1738-ADCP-E02R7SA308Q-Notification.pdf

High Capacitance Supercapacitors



ADCP-E02R7S

Request Samples | Check Inventory

Various Sizes
RoHS/RoHS II Compliant
MSL Level = 2

Features

- High Energy density of over 6Wh/Kg
- Low Leakage Current as small as 2.8mA
- Low Self-discharge rate, 72 hours @ discharge <5%
- Excellent cycle life of >500K cycles @25C
- Green, meet RoHS requirements.

Applications

- Power Assist Circuits
- Power Backup
- Energy Storage
- SSD applications
- Large Arrays and Module designs

Electrical Specifications

Part Number	Rated Voltage (U_R)	Surge Voltage (Max)	Capacitance	Tolerance	ESR (Max)		Continuous Current (Max)	Peak Current (Max)	Leakage Current	Stored Energy (Max)	Gravimetric Energy Density
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Operating Temperature: -40°C to +65°C
Storage: Temperature 10°C to +50°C, RH<60%, Max. Humidity <70% RH
Test Conditions: +25°C
All parameters are measured according to the IEC 62813 standard.
Capacitance and ESR are measured with I(mA)= 8(C*U_R)
Nominal Current: 1C
Peak Current (Max.): 50C
Leakage Current: Measured after 72h at U_R

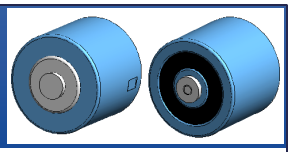
ABRACON

12117 Bee Caves Rd Bldg-3, Ste 200
Bee Cave, TX 78738
Ph: (512) 371-6159; Fax: (512) 351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISION A : 7/6/2026

ABRACON IS ISO9001-2015 CERTIFIED

High Capacitance Supercapacitors



ADCP-E02R7S

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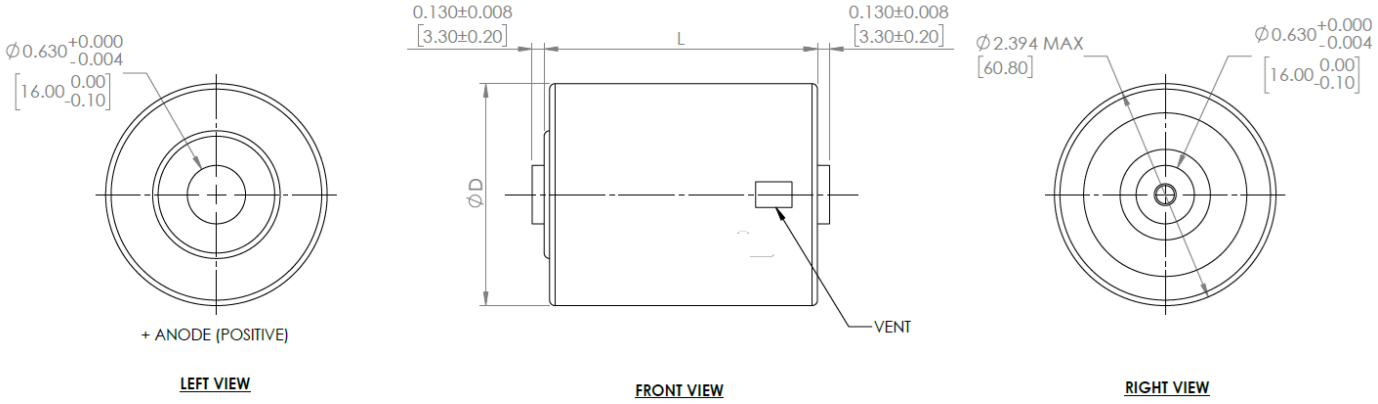
Mechanical Specifications



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Dimensions: Inches [mm]

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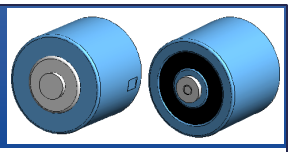

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RoHS/RoHS II Compliant
MSL Level = 2

Part Number Identification

ADCP – E [ ] [ ] [ ] [ ] [ ] [ ]

VDC	Rating	Dimensions Options	Capacitance*	Tolerance	Packaging
02R7: 2.7V	S: Standard	A	Refer to Electrical Specification table E.g., 308: 30 x10^8 = 3000F	Q: -10% /+30% M: -20% / +20%	Blank: Bulk

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

Part Marking

Example of the Markings of a 3000F 2.7V capacitor

Capacitance (F)
Rated Voltage (V)
Polarity (Refer to mechanical drawing to determine polarity)

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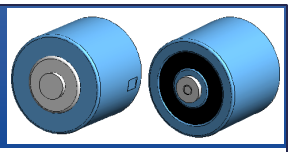

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Welding Method

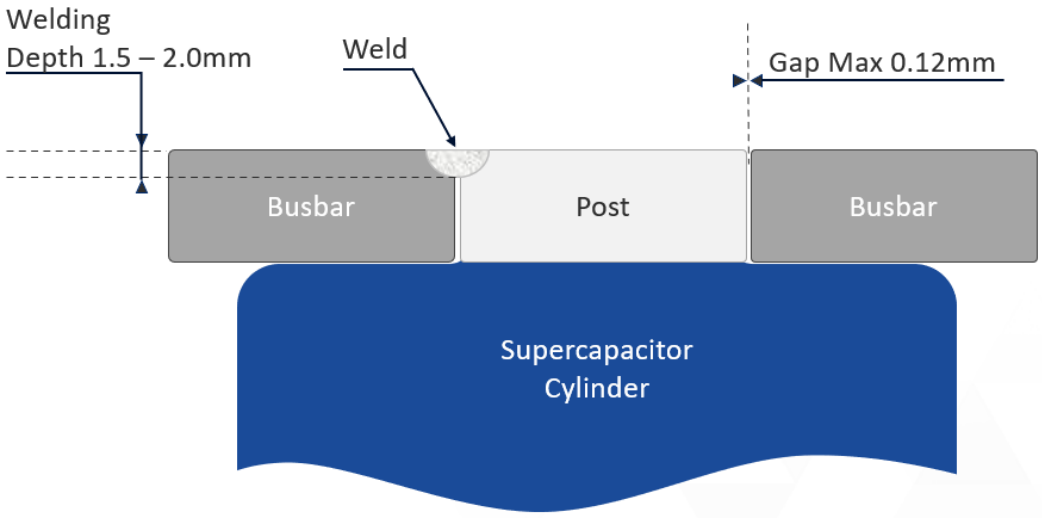
Pulsed laser welding is recommended using the following parameters.

Laser Energy: 2.5 – 5.5kW

Minimum travel rate: 30mm/s

Capacitor Post Material: AW1070

Capacitor Body Temperature Max: 100ºC < 2sec



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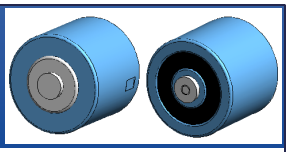

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Various Sizes
RoHS/RoHS II Compliant
MSL Level = 2

Packaging

Products are packaged in a carton containing multiple inner boxes.

Inner Box (Example 25pcs):

Part Number	Pcs/Inner Box	Pcs/Carton [# of Inner Boxes]	Carton Length	Carton Width	Carton Height
ADCP-E02R7SA128	25	50 [2]	368	368	280
ADCP-E02R7SA158	25	50 [2]	368	368	280
ADCP-E02R7SA208	25	50 [2]	368	368	315
ADCP-E02R7SA308	25	25 [1]	368	368	206

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.

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