

ADCS-E02R7S

Request Samples



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Various Sizes RoHS/RoHS II Compliant MSL Level = N/A

Features

- High Energy density up to 6Wh/Kg
- Low Leakage Current as small as 1.7mA
- 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
- Micro Energy Storage
- IoT Energy Harvesting
- SSD applications
- DDR power back up
- RTC System power transfer to battery backup

Electrical Specifications

Part Numbers*	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
ADCS-E02R7S	DC (V)	DC (V)	Farads	See part number identifier	AC ESR (mΩ)	DC ESR (mΩ)	А	A	mA	Wh	Wh/kg
ADCS-E02R7SA657	2.7	2.85	650	Q, M	0.60	0.72	54	598	1.70	0.6581	4.11
ADCS-E02R7SA128	2.7	2.85	1200	Q, M	0.40	0.55	70	976	2.80	1.2150	4.67
ADCS-E02R7SA158	2.7	2.85	1500	Q, M	0.33	0.45	84	1209	3.00	1.5188	5.42
ADCS-E02R7SA208	2.7	2.85	2000	Q, M	0.25	0.35	110	1588	4.20	2.0250	5.63
ADCS-E02R7SA308	2.7	2.85	3000	Q, M	0.22	0.26	130	2275	5.20	3.0375	6.08

^{*}For full part numbers, refer to the part number identification section

Operating Temperature: -40°C to +65°C.

Storage Temperature: 10°C to +40°C, Max. Humidity <85% RH.

Test Conditions: +25°C.

All parameters are measured according to the IEC 62813 standard.

Capacitance and ESR are measured with $I(mA)=4(C*U_R)$

Continuous Current (Max): DC current at which the body temperature rises by $\Delta T=15^{\circ}C$.

Leakage Current: Measured after 72h at Rated Voltage (U_R)





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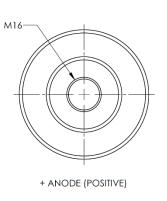


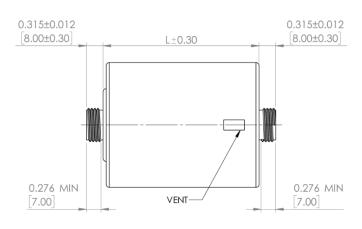
Check Inventory (>)

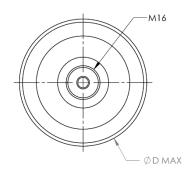


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Mechanical Specifications







LEFT VIEW

FRONT VIEW

RIGHT VIEW

Dimensions	ØD	Г
ADCS-E02R7SA657	2.362[60]	2.165[55]
ADCS-E02R7SA128	2.362[60]	2.952[75]
ADCS-E02R7SA158	2.362[60]	3.346[85]
ADCS-E02R7SA208	2.362[60]	4.133[105]
ADCS-E02R7SA308	2.362[60]	5.511[140]

Dimensions: Inches [mm]





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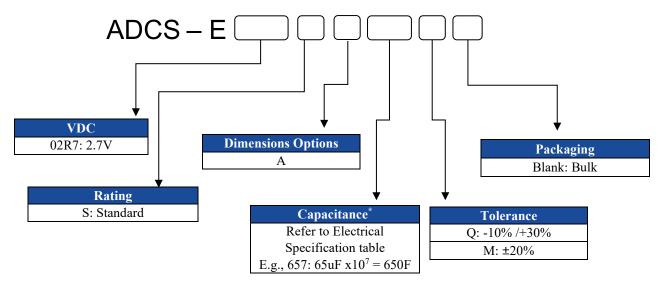


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Part Number Identification



^{*}Only part numbers listed in the Electrical Specs table are available. For custom builds, please contact us.





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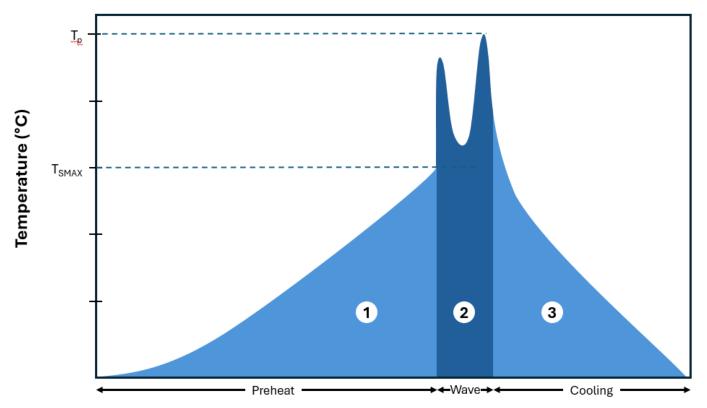


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Wave Profile



Time (Seconds)

Zone	Description	Temperature	Times		
1	Preheat	$\begin{array}{l} T_{SMIN} \sim T_{SMAX} \\ 25^{\circ} C \sim 130^{\circ} C \end{array}$	80 sec. MAX		
•	Preheat Rate	T _{PREHEAT} +4°C/Sec MAX	80 Sec. IVIAA		
2	Wave Temperature	${\rm T_w} \\ 245 ^{\circ}{\rm C} \sim 260 ^{\circ}{\rm C}$	10 sec. MAX Dual wave		
	Wave Peak Temperature	Т _Р 260°С	5 sec. MAX/wave		
3	Cooling Rate	$T_{ m COOLING}$	-5°C/Sec MAX		





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Packaging

The product is packaged in a carton containing multiple inner boxes as follows:

Part Number	Pcs/Box		
ADCS-E02R7SA657	50		
ADCS-E02R7SA128	50		
ADCS-E02R7SA158	50		
ADCS-E02R7SA208	25		
ADCS-E02R7SA308	25		

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.

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.

