

Round, bus bar type

Series: BCAP



Features:

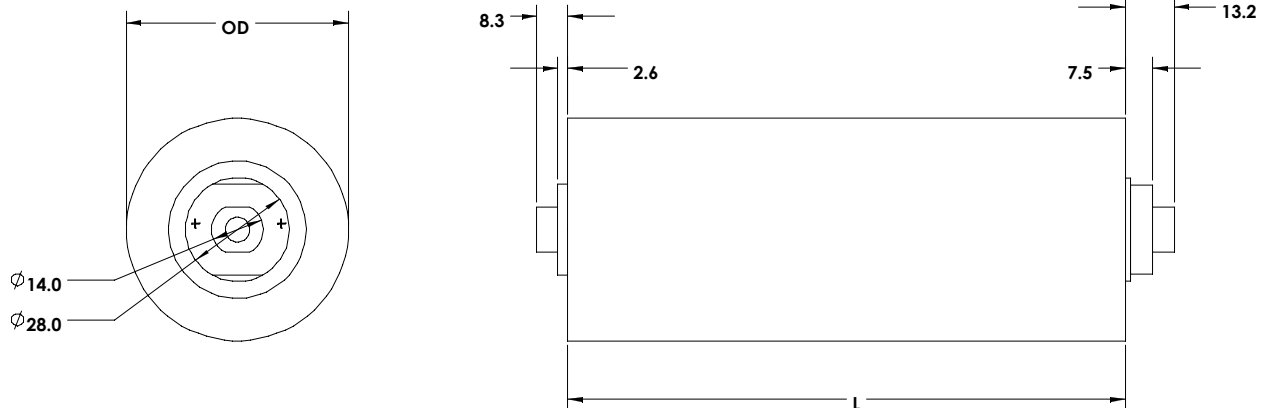
- > Over 500,000 duty cycles
- > 10 year life capability
- > Higher energy vs electrolytic
- > Higher power vs. batteries
- > Aluminum construction
- > Round, double ended design
- > Ultra-low internal resistance
- > Resistant against reverse polarity

Applications:

- > Automotive subsystems
- > Heavy duty vehicle subsystems
- > Rail system power
- > Windmill pitch control systems
- > Wireless transmissions



Dimensions:



Case size	Dimensions, mm		Weight [g]	Vol. [l]	Typical package qty
	L	OD			
BCAP0008	150	50	400	0.3	25
BCAP0010	150	60	525	0.42	25
BCAP0013	75	50	190	0.15	25

Product dimensions and specifications may change without notice. Please contact Maxwell Technologies directly for any technical specifications critical to application.

› Specifications:

	Product Specification				
	BCAP0008	BCAP0010	BCAP0013	Tolerance	Standard
Mounting	Screw Type				
Capacitance, C _R [F]	1,800	2,600	450	+/- 20%	
Voltage, U _R	2.5				
Internal resistance, DC [ohm]	0.0009	0.0007	0.0024	+/- 25 %	
Internal resistance, 1 kHz [ohm]	0.00045	0.0003	0.0008	+/- 25 %	
Rated current, [A]	450	600	180		5s discharge to 1/2 U _R
Leakage current [mA]	4	5	3		72 hrs, 25°C
Operating temp. range [C]	-40 to 65				
Storage temp. range [C]	-40 to 70				
Endurance, Capacitance [F]	< 20% decrease				1000 hrs @ U _R and 70°C
Endurance, Resistance [ohm]	< 40% increase				
Power, P _d [W/kg]	2080	2040	1640		See additional technical information
Power, P _v [W/l]	2780	2550	2080		
Life Time	△C < 20% decrease, ESR < 200% increase				from initial value after 10y @ 25°C
Cycle Life	△C < 20% decrease, ESR < 200% increase				from initial value after 500K cycles @ 25°C (I = 20A)

› Markings: Capacitors are marked with the following information

Rated capacitance, Rated voltage, product number, name of manufacturer, positive and negative terminal, warning marking

› Mounting Recommendations:

Maximum torque for M8 screw terminals is 7Nm with one key and 10Nm using a counter key.
See B-F0-0130 for additional information.

Components should not be operated outside recommended limits.

› Additional Technical Information:

$$P_d = (0.12 \times E^2 / R_d) / M$$

where E = charge voltage (U_R), R_d = internal resistance (DC)
M = capacitor weight (kg)

$$P_v = (0.12 \times E^2 / R_d) / V$$

where V = capacitor volume (l)

US Patents: 6,525,924

Worldwide Headquarters

MAXWELL TECHNOLOGIES
9244 Balboa Avenue • San Diego, 92123 CA, USA
PHONE: +(1) 858 503 3300
FAX: +(1) 858 503 3301
EMAIL: ultracapacitors@maxwell.com

European Office

MAXWELL TECHNOLOGIES SA
CH-1728 Rossens • Switzerland
PHONE: +41 (0) 26 411 85 00
FAX: +41 (0) 26 411 85 05
EMAIL: ultracapacitors@maxwell.com

Maxwell
TECHNOLOGIES
www.maxwell.com