

**Round, solder lead type**

Series: BCAP



› **Features:**

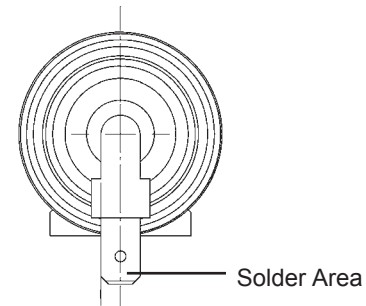
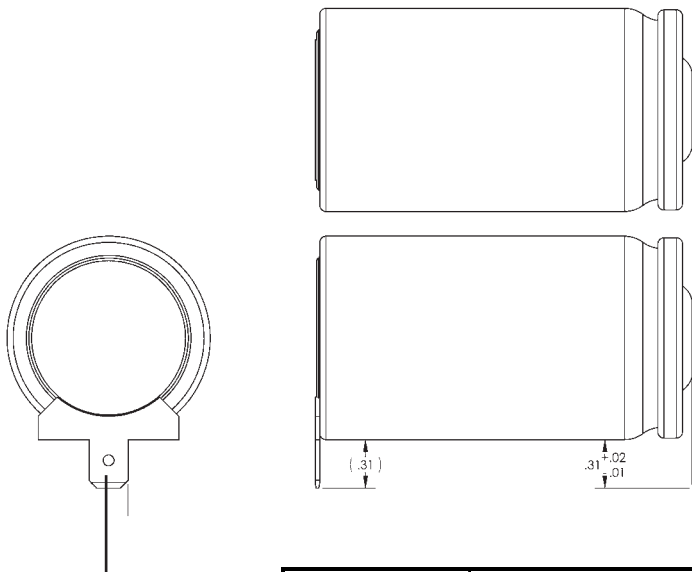
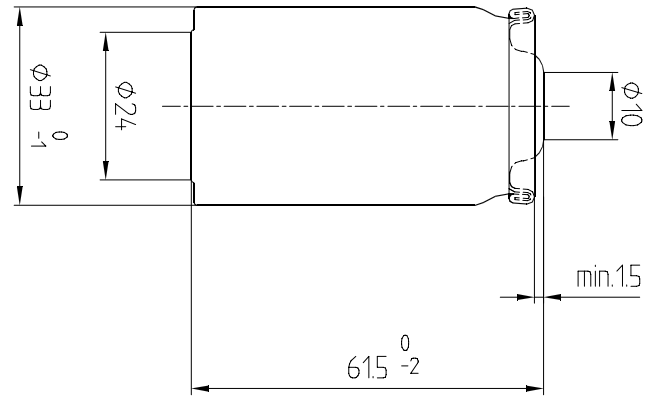
- › Dimensions similar to EN 60086-2 & EN 60285
- › Over 500,000 duty cycles
- › 10 year life capability
- › Higher energy vs electrolytic
- › Higher power vs. batteries
- › Aluminum construction
- › Round, double ended design
- › Ultra-low internal resistance
- › Resistant against reverse polarity



› **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			
BCAP0350	61.5	33	60	0.05	40

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

> Specifications:

	Product Specification		
	BCAP0350	Tolerance	Standard
Mounting	Solder		
Capacitance, C <sub>R</sub> [F]	350	+/- 20%	
Voltage, U <sub>R</sub>	2.5		
Internal resistance, DC [ohm]	0.0032	+/- 25 %	Discharging at Constant Current (25°C)
Internal resistance, 1 kHz [ohm]	0.0016	+/- 25 %	Discharging at Constant Current (25°C)
Rated current, [A]	70		5s discharge to 1/2 U <sub>R</sub>
Leakage current [mA]	1		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 <sub>R</sub> and 65°C
Endurance, Resistance [ohm]	< 25% increase		
Power, P <sub>d</sub> [W/kg]	3,906		See additional technical information
Power, P <sub>v</sub> [W/l]	4,687		
Life Time	ΔC < 20% decrease, ESR < 200% increase		from initial value after 10y @ 25°C
Cycle Life	ΔC < 20% decrease, ESR < 200% increase		from initial value after 500K cycles @ 25°C (I = 5A)

> Markings: Capacitors are marked with the following information

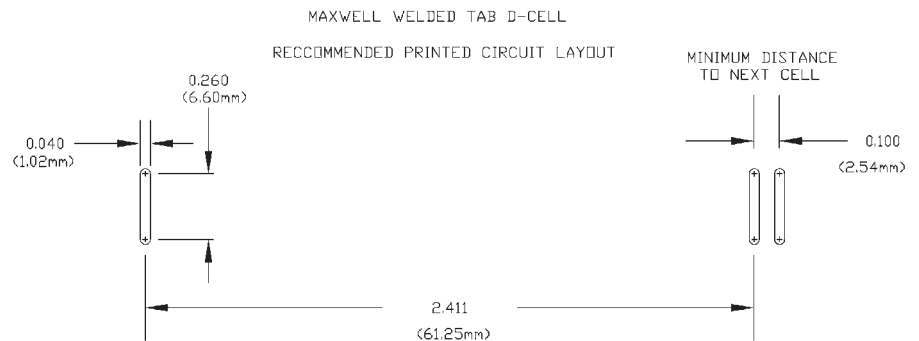
Rated capacitance, Rated voltage, product number, name of manufacturer, positive and negative terminal, warning marking

> Mounting Recommendations:

Cells are designed to be soldered into series or parallel strings.

Components should not be operated outside recommended limits.

Parts can be ordered without tabs.



> Additional Technical Information:

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

where E = charge voltage (U<sub>R</sub>),  
M = capacitor weight (kg)

R<sub>d</sub> = internal resistance (DC)

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

where V = capacitor volume (l)

Patent Pending

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