

**Prismatic, Tab Type**

Series: PC100E



› **Features:**

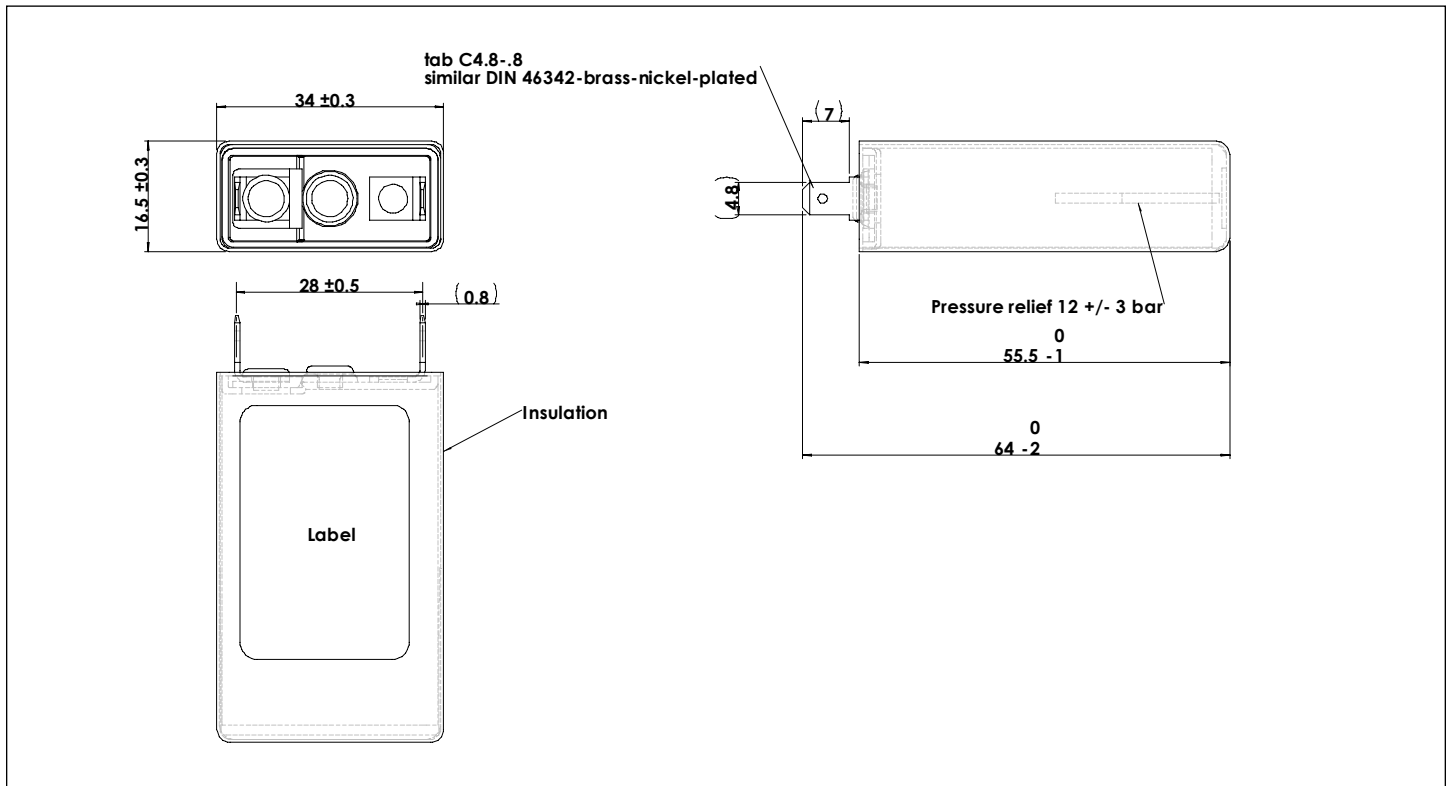
- › Over 500,000 duty cycles
- › 10 year life capability
- › Higher energy vs electrolytic
- › Higher power vs. batteries
- › Aluminum construction

› **Applications:**

- › Automotive subsystems
- › Wireless transmissions



› **Dimensions:**



Case size	Dimensions, mm					Weight [g]	Vol. [l]	Typical package qty
	L	W	T	d	p			
PC100E	34	64	16	0.8	28	37	0.034	20

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

› **Specifications:**

	Product Specification		
	PC100E	Tolerance	Standard
Mounting	Tab Type		
Capacitance, C <sub>R</sub> [F]	100	+/- 20%	
Voltage, U <sub>R</sub>	2.5		
Internal resistance, DC [ohm]	0.013	+/- 25 %	
Internal resistance, 1 kHz [ohm]	0.009	+/- 25 %	
Rated current, [A]	25		5s discharge to 1/2 U <sub>R</sub>
Leakage current [mA]	0.3		72 hrs, 25°C
Operating temp. range [C]	-40 to 70		
Storage temp. range [C]	-40 to 85		
Endurance, Capacitance [F]	< 20% decrease		1000 hrs @ U <sub>R</sub> and 70°C
Endurance, Resistance [ohm]	< 40% increase		
Power, P <sub>d</sub> [W/kg]	1,500		See additional technical information
Power, P <sub>v</sub> [W/l]	1,700		
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 = 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:**

Components should not be operated outside recommended limits.  
PC board solder mounting. Welded tab mounting.

› **Additional Technical Information:**

$$P_d = (0.12 \times E^2 / R_d) / M \quad \text{where } E = \text{charge voltage (U}_R\text{), } R_d = \text{internal resistance (DC)}$$

$$M = \text{capacitor weight (kg)}$$

$$P_v = (0.12 \times E^2 / R_d) / V \quad \text{where } V = \text{capacitor volume (l)}$$

US Patents: 6,430,031; 6,233,135; 5,907,472; 5,862,035; 5,777,428; 5,621,607

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