

**SERIES: PRISMATIC EDLC**

**FEATURES**

- Made in the USA
- High energy density
- High power density
- Low internal resistance (ESR)
- 10 year life
- High cycle life (+500K cycles)
- RoHS compliant

**APPLICATIONS**

- Utility energy storage
- Peak shaving
- Load leveling
- EV launch assist
- EV regeneration
- Mass transit (Bus / Rail)

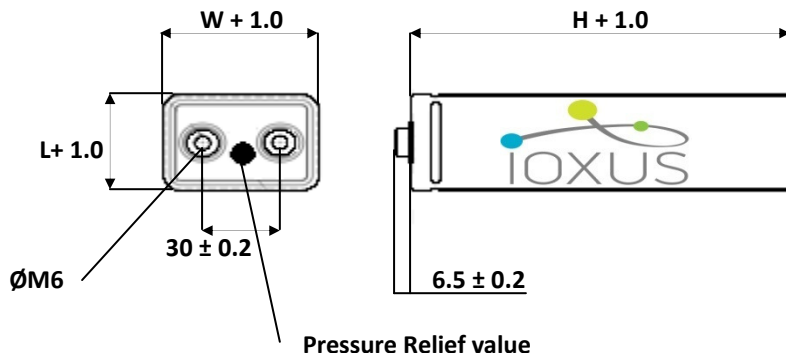


**SPECIFICATIONS:**

<b>Operating Temperature Range</b>	-40 °C to +70 °C	
<b>Storage Temperature Range</b>	-40 °C to +70 °C	
<b>Rated Voltage, V<sub>R</sub></b>	2.7 V DC	
<b>Capacitance Tolerance</b>	-5% to +20%	
<b>Cycle Life (25°, V<sub>R</sub>)</b>	After 500,000 cycles between rated voltage and half rated voltage under constant current at 25 °C	
	ΔC < 30% decrease, ESR < 200% increase	
<b>Life Time*</b>	After 10 years at rated voltage and 25 °C	
	ΔC < 30% decrease, ESR < 200% increase	
<b>Endurance</b>	After 1000 hours application of rated voltage at 65°C	
	Capacitance Change	Within 20% of initial specified value
	Internal Resistance (ESR)	Within 100% of initial specified value
<b>Shelf Life</b>	After 1000 hours storage at 70°C without load (0 V DC)	
	Capacitance Change	Within 20% of initial value
	Internal Resistance (ESR)	Within 100% of initial value

\*Life time is a provisional value

**DIMENSIONS:**



Part Number	Unit	RSC2R7508SP
Length (L)	mm	80
Height (H)	mm	150
Width (W)	mm	64
Volume	ml	768
Weight	g	840

**PRODUCT DETAILS:**

Part Number	Unit	RSC2R7508SP
Capacitance	F	5000
Capacitance Tolerance	%	-5 to +20
Rated Voltage	V	2.7
Surge Voltage	V	2.85
Impedance (AC 1kHz)	mΩ	≤0.20
ESR (DC)	mΩ	≤0.25
Max Stored Energy	Wh	5.063
Specific Energy	Wh/kg	6.03
	Wh/L	6.59
Maximum Power	kW/kg	10.85
Operating Temp	°C	-40 to +65
Stored Temp	°C	-40 to +70
Max Leakage Current	mA	6.5 (72h)
Life time	years	10
Cycle life	cycles	500,000

\*\*All specifications subject to change without notification; please contact ioxus for the latest information