

**SERIES: SNAP-IN HYBRID CAPACITOR**

**FEATURES**

- Made in the USA
- High energy density
- High power density
- Low internal resistance (ESR)
- High cycle life (20K+ cycles)
- RoHS compliant

**APPLICATIONS**

- Flashlights
- Solar / LED Lighting
- Memory Back-Up
- Portable Hand Tools

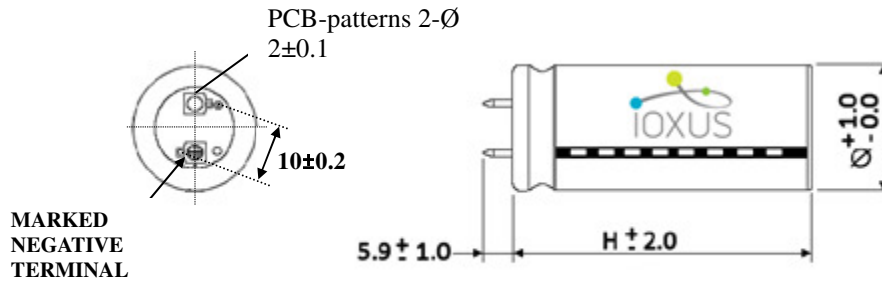


**SPECIFICATIONS:**

<b>Operating Temperature Range</b>	-25°C to +60°C	
<b>Storage Temperature Range</b>	-30°C to +65°C	
<b>Rated Voltage, V<sub>R</sub></b>	2.3 V DC	
<b>Capacitance Tolerance</b>	-10% to +10%	
<b>Cycle Life (25°, V<sub>R</sub>)</b>	After 20,000 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 60°C	
	Capacitance Change	Within 30% of initial specified value
	Internal Resistance (ESR)	Within 200% of initial specified value
<b>Shelf Life</b>	After 1000 hours storage at 65°C without load (0V DC)	
	Capacitance Change	Within 20% of initial value
	Internal Resistance (ESR)	Within 200% of initial value

\*Life time is a provisional value

**DIMENSIONS:**



Part Number	Unit	RHE2R3807SR
Diameter (Ø)	mm	35
Height (H)	mm	68
Volume	ml	65
Weight	g	91

**PRODUCT DETAILS:**

Part Number	Unit	RHE2R3807SR
Capacitance	F	800
Capacitance Tolerance	%	±10
Rated Voltage	V	2.3
Surge Voltage	V	2.5
Impedance (AC 1kHz)	mΩ	≤8
ESR (DC)	mΩ	≤15
Max Stored Energy	Wh	0.588
Specific Energy	Wh/L	8.99
Maximum Power	kW/kg	1.82
Operating Temp	°C	-25 to +60
Stored Temp	°C	-30 to +65
Max Leakage Current	mA	0.5 (72h)
Life time	years	10
Cycle life	cycles	20,000+

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

**Ioxus, Inc.**

118 Winney Hill Road, Oneonta, NY 13820, USA  
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Toll Free: +1-877-751-4222

Tel: 607-433-9011

Fax: 607-433-9014