

SERIES: GEN 2 ULTRACAPACITOR – 3000F, 2.7V

FEATURES

- High energy density
- High power density
- Low internal resistance
- High cycle life
- RoHS compliant

APPLICATIONS

- Hybrid Bus Drive Train
- Automotive Drive Train
- Rail Power Systems
- Heavy Truck Systems
- Power Quality Systems
- Material Handling Systems
- Renewable Energy Systems
- Regenerative Braking Capture



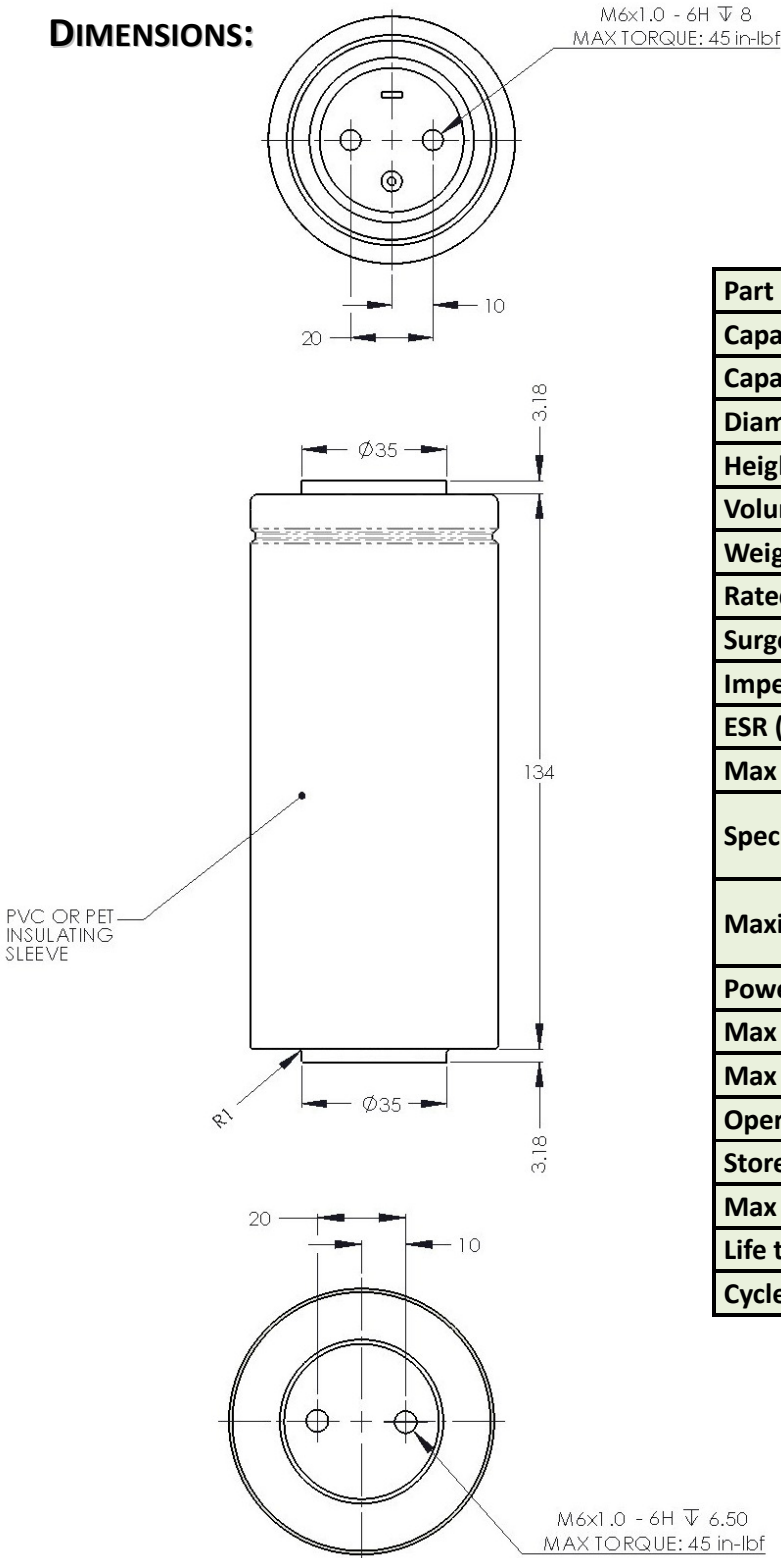
SPECIFICATIONS:

PRELIMINARY

Operating Temperature Range	-40°C to +65°C	
Storage Temperature Range	-40°C to +70°C	
Rated Voltage, Vr	2.7 V DC	
Capacitance Tolerance	-10% to +10%	
Cycle Life (25°, Vr)	After 500,000 cycles between rated voltage and half rated voltage under constant current at 25°C	
	ΔC < 30% decrease, ESR < 100% increase	
Life Time	After 10 years at rated voltage and 25°C	
	ΔC < 30% decrease, ESR < 100% increase	
Endurance	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
Shelf Life	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

DIMENSIONS:

PRELIMINARY



Part Number	Unit	RSC2R7308LR
Capacitance	F	3000
Capacitance Tolerance	%	+ 10% / -0%
Diameter (\varnothing)	mm	60
Height (H)	mm	134
Volume	ml	378
Weight	g	525
Rated Voltage	V	2.7
Surge Voltage	V	2.85
Impedance (AC 1kHz) Max	m Ω	0.2
ESR (DC) Max	m Ω	0.24
Max Stored Energy	Wh	3.04
Specific Energy	Wh/kg	5.79
	Wh/L	8.02
Maximum Power	kW/kg	17.36
	kW/L	24.06
Power Density	kW/kg	6.94
Max Continuous Current	A	150
Max Current (1 second)	A	2300
Operating Temp	$^{\circ}$ C	-40 to +65
Stored Temp	$^{\circ}$ C	-40 to +70
Max Leakage Current	mA	5.0 (72h)
Life time	years	10
Cycle life	cycles	500,000+

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