

## Series: Screw Terminal

### Features:

- M5 tapped terminals
- Bus bar or ring terminal connections
- RoHS compliant

### Applications:

- High power
- High rate cycling
- High cycle life >500,000 cycles
- Long life
- Extreme temperature

### Markets:

- Wind turbine pitch control
- Automotive subsystems
- Backup power/UPS
- Handheld/portable devices
- Hybrid energy storage
- Hybrid drivetrains
- Emergency lighting
- Medical devices
- Power correction
- Engine starting
- Renewable energy

### Markings:

Products are marked with the following:  
Rated capacitance, rated voltage, product number, name of manufacturer, negative terminal marking.

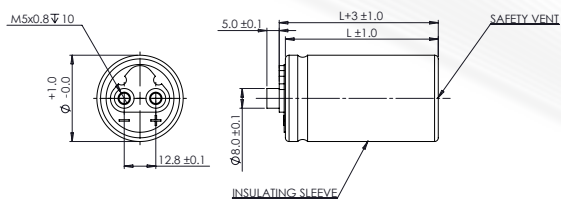


Operating	
Voltage, Rated	2.7 V
Voltage, Surge	2.85 V
Capacitance Tolerance	+10% / -5%
Temperature	
Range, Operational	-40°C to 65°C
Range, Storage	-40°C to 70°C
Life	
DC	10 years, rated voltage, 25°C
	$\Delta C < 20\%$ decrease, ESR < 100% increase
Endurance	1000 hrs, rated voltage, 65°C
	$\Delta C < 20\%$ decrease, ESR < 100% increase
Shelf	1000 hrs, no voltage, 70°C
	$\Delta C < 20\%$ decrease, ESR < 100% increase
Cycle	>500,000 cycles, Rated to half rated voltage, 25°C
	$\Delta C, 20\%$ decrease, ESR, 100% increase
Standards Compliance	
UL 810a RoHS BS EN 60068-2-6, 27, 29 IEC 60068-2-14 SAE J2464, J2390, J1455 IP65 MIL 810 B-(516.3-5, 514.3-1, 509.2-1) ASTM B117	



## Product Specifications

Part Number	RSC2R7357ST	RSC2R7407ST	RSC2R7607ST
<b>Electrical</b>			
Capacitance (F)	350	400	600
ESR, DC $\leq$ (m $\Omega$ ) [10ms]	2.5	2.5	2.0
ESR, AC 1kHz $\leq$ (m $\Omega$ )	2.2	2.0	1.5
Inductance $\pm$ 10(nH)	150	150	150
72hr Leakage $\leq$ (mA)	1.0	1.2	1.5
<b>Cycling</b>			
Current, Peak [1s] (A)	252	270	368
Continuous Current (A)*	22	24	30
Current, Short Circuit (A)	1080	1080	1350
<b>Thermal</b>			
Resistance, Thermal ( $^{\circ}$ C/W)	11	10	8
<b>Energy/Power</b>			
$E_{max}$ (Whr)	0.35	0.41	0.61
$E_{max}$ (Whr/kg)	4.73	5.00	5.90
$E_{max}$ (Whr/L)	5.94	6.01	6.98
$P_{max}$ (kW/kg)	11.0	11.3	11.8
$P_{max}$ (kW/L)	13.9	13.5	14.0
$P_d$ (kW/kg)	4.67	4.32	4.25
<b>Physical</b>			
D (mm)	35	35	35
L (mm)	62	70	90
Mass (kg)	0.075	0.081	0.103
Volume (L)	0.060	0.067	0.087
Volume of ACN (L)	0.027	0.031	0.042



## Additional Technical Information

Product specification test methods available in separate document.

\*Rated current = continuous current with 20 $^{\circ}$ C temperature rise.

## Mounting Recommendation

Do not reverse polarize. Solder following recommendations in *Notes on Using Ultracapacitors*, available at [www.ioxus.com](http://www.ioxus.com).



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