

### Features

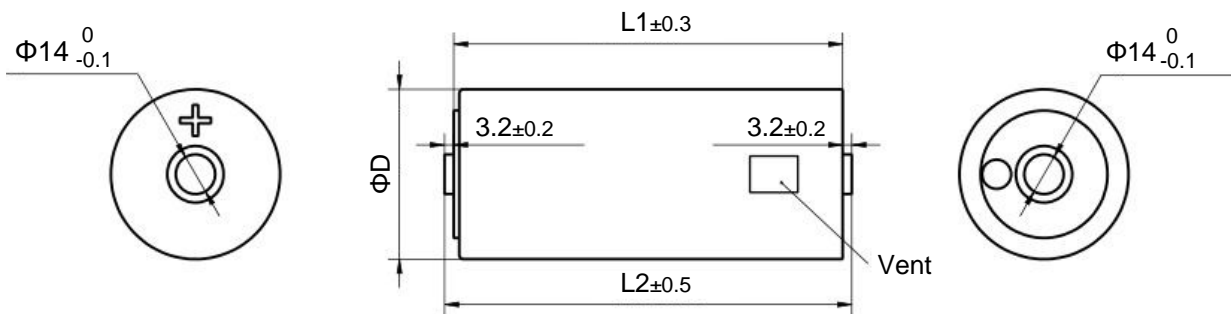
- Low ESR, High power performance
- Over 1,000,000 duty cycles
- Weldable terminal

### Applications

- EV/HEV
- Hybrid drive trains
- Mass transportation braking energy recovery system
- Heavy duty machinery
- Locomotive engine startup system



### Dimensions



Part Number	Dimension/ mm		
	D(Max.)	L1	L2
SCP0650C0-0002R7WLH	60.8	51.5	57.9
SCP1200C0-0002R7WLH	60.8	74	80.4
SCP1500C0-0002R7WLH	60.8	85	91.4
SCP2000C0-0002R7WLH	60.8	102	108.4
SCP3000C0-0002R7WLH	60.8	138	144.4
SCP5000C0-0002R7WLH	60.8	203.5	209.9

### Specifications

Items	Characteristics
Operating Voltage	2.7 VDC
Surge Voltage	2.85 VDC
Operating Temperature Range	-40 °C to 65 °C
Capacitance Tolerance	-10% to +20% (25 °C)
Temperature Performance(-40 °C to 65 °C)	$\Delta C \leq 5\%$ of initial measured value@ 25 °C ESR $\leq 150\%$ of specified value
Life (1500 hours @ 65 °C, 2.7 VDC)	$\Delta C \leq 20\%$ of initial measured value ESR $\leq 200\%$ of specified value
Cycle life (1,000,000 cycles between $V_R$ and $1/2 V_R$ )	$\Delta C \leq 20\%$ of initial measured value ESR $\leq 200\%$ of specified value

**Standard Product**

CAP (F)	Part Number	ESR (mohm)		LC (mA, RT 72hrs)	Max. Energy Stored (Wh)	Max. Energy Density (Wh/Kg)	Max. Continuous Current (15/40°C,A)	Max. Peak Current (A)	Typical Thermal Resistance (Housing) °C/W	Typical Thermal Capacitance, C <sub>th</sub> , J/°C	Typical Mass (g)
		AC @ 1kHz	DC								
650	SCP0650C0-0002R7WLH	0.70	0.80	1.8	0.66	3.1	54/87	577	6.5	250	213
1200	SCP1200C0-0002R7WLH	0.40	0.58	2.5	1.22	4.2	71/116	955	5.1	330	291
1500	SCP1500C0-0002R7WLH	0.33	0.47	3.0	1.52	4.5	83/135	1187	4.6	380	339
2000	SCP2000C0-0002R7WLH	0.25	0.35	3.5	2.03	5.0	103/168	1588	4.0	460	402
3000	SCP3000C0-0002R7WLH	0.22	0.29	5.2	3.04	5.6	128/208	2165	3.2	640	545
5000	SCP5000C0-0002R7WLH	0.21	0.28	13.0	5.06	6.4	154/250	2812	2.3	930	795