

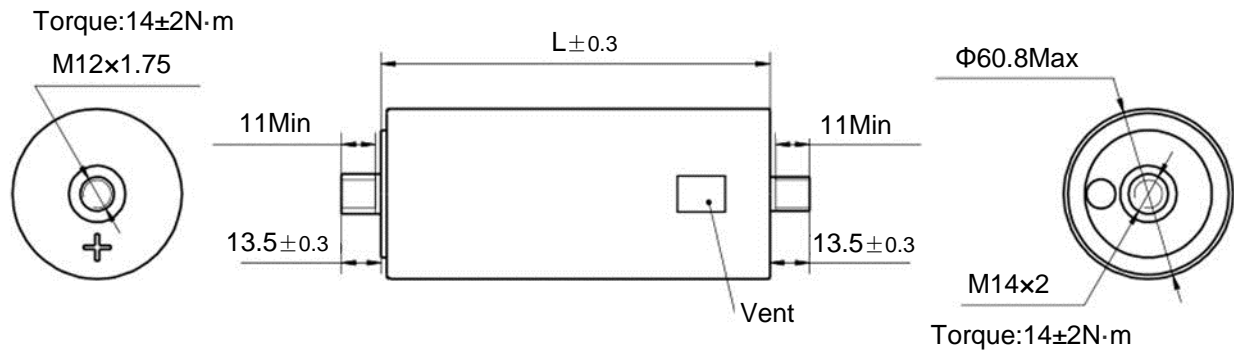
### Features

- Low ESR, High power performance
- Over 1,000,000 duty cycles
- Threaded connection

### Applications

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

### Dimensions



Cap /F	L /mm
650	51.5
1200	74
1500	85
2000	102
3000	138
5000	203.5

**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	SCP0650C0-0002R7STA	0.70	0.80	1.8	0.66	3.0	54/87	577	6.5	260	219
1200	SCP1200C0-0002R7STA	0.40	0.58	2.5	1.22	4.1	71/116	955	5.1	340	297
1500	SCP1500C0-0002R7STA	0.33	0.47	3.0	1.52	4.4	83/135	1187	4.6	390	345
2000	SCP2000C0-0002R7STA	0.25	0.35	3.5	2.03	5.0	103/168	1588	4.0	460	408
3000	SCP3000C0-0002R7STA	0.22	0.29	5.2	3.04	5.5	128/208	2165	3.2	650	551
5000	SCP5000C0-0002R7STA	0.21	0.28	13.0	5.06	6.3	154/250	2812	2.3	940	801