

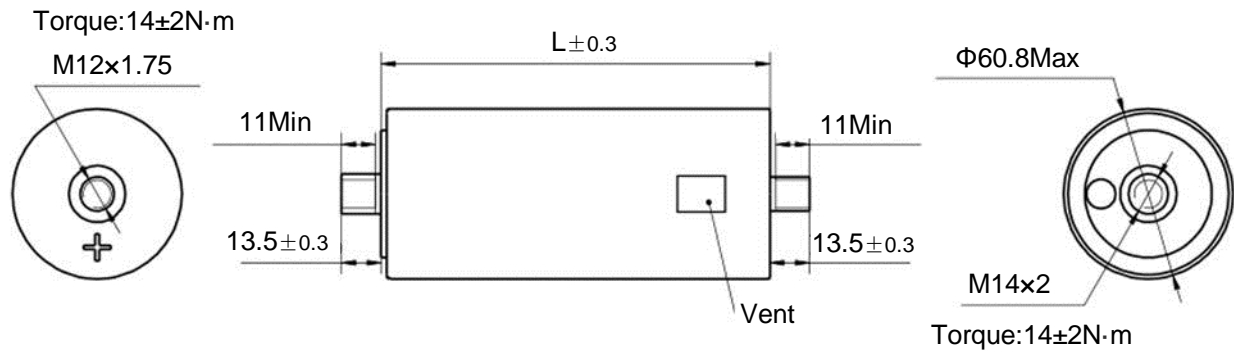
Features

- 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 (40°C,A)	Max. Peak Current (A)	Typical Mass (g)
		AC @ 1kHz	DC						
650	SCP0650C0-0002R7STA	0.70	0.80	1.8	0.66	3.0	87	577	219
1200	SCP1200C0-0002R7STA	0.40	0.58	2.5	1.22	4.1	116	955	297
1500	SCP1500C0-0002R7STA	0.33	0.47	3.0	1.52	4.4	135	1187	345
2000	SCP2000C0-0002R7STA	0.25	0.35	3.5	2.03	5.0	168	1588	408
3000	SCP3000C0-0002R7STA	0.22	0.29	5.2	3.04	5.5	208	2165	551
5000	SCP5000C0-0002R7STA	0.21	0.28	13.0	5.06	6.3	250	2812	801

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