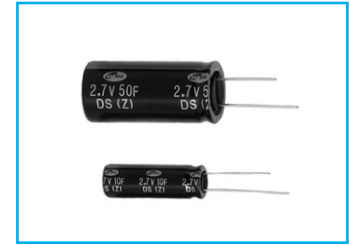


Green-Cap (ELECTRIC DOUBLE LAYER CAPACITORS)

DS Radial Type, Standard Series

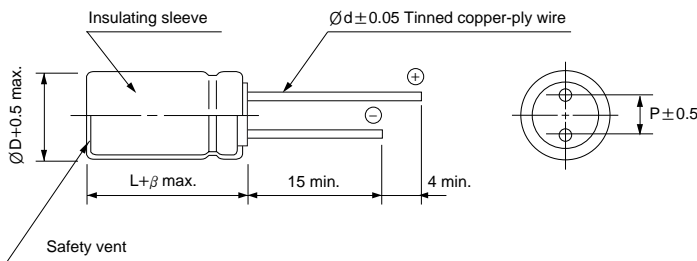
- Endurance : 2.5V 70°C 1000 hours, 2.7V 60°C 1000 hours
- The small size and high capacitance, low resistance
- Can be charge and discharge more times than secondary batteries



Item	Characteristics	
Operating temperature range	-25 ~ +70°C	-40 ~ +60°C
Rated Voltage	2.5VDC	2.7VDC
Capacitance tolerance	-20 ~ +20% at 20°C	
Low temperature characteristics	Capacitance change	Within $\pm 30\%$ of initial value at +20°C (-25 to+70°C,-40 to+60°C)
	Internal resistance	Less than 400% of initial at +20°C
Endurance (2.5V:70°C, 2.7V:60°C)	Test time	1000 hours
	Capacitance change	Within $\pm 30\%$ of initial value
	Internal resistance	Less than 300% of initial at specified value
Shelf life (2.5V:70°C, 2.7V:60°C)	After 1000 hours no load test same as endurance	
Life Time at RT ⁽¹⁾	10 years	(1) $I\Delta C < 30\%$ and $\Delta ESR < 100\%$ of initially specified value, respectively and $LC <$ specified value
Cycle Life (25°C) ⁽¹⁾⁽²⁾	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

DRAWING

Unit : mm



ϕD	8	10	16	18
P	3.5	5	7.5	7.5
ϕd	0.6	0.6	0.8	0.8
β	1.5	2.0		

CHARACTERISTIC LIST & DIMENSIONS

Rated Voltage	Capacitance (F)	ESR, DC (m Ω)	ESR, 1KHz (m Ω)	LC (30min) (mA)	Specific Energy		Specific Power		Weight (g)	Volume (ml)	Dimension $\phi D \times L$ (mm)
					(Wh/kg)	(Wh/L)	(W/kg)	(W/L)			
2.5	3	350	140	2	1.63	2.59	1339	2132	1.6	1.0	8 × 20
	5	250	110	4	1.97	2.76	1364	1910	2.2	1.6	10 × 20
	10	120	65	8	2.48	3.68	1786	2653	3.5	2.4	10 × 30
	25	65	35	20	2.89	4.32	1538	2296	7.5	5.0	16 × 25
	60	30	20	48	3.77	5.12	1812	2456	13.8	10.2	18 × 40
2.7	3	90	60	2	2.17	3.02	6943	9669	1.4	1.0	8 × 20
	5	70	50	4	2.41	3.22	5951	7956	2.1	1.6	10 × 20
	10	50	35	8	3.49	4.30	6033	7426	2.9	2.4	10 × 30
	25	45	20	20	3.78	5.04	2901	3867	6.7	5.0	16 × 25
	50	40	10	48	4.40	4.97	1902	2149	11.5	10.2	18 × 40