

Green-Cap (ELECTRIC DOUBLE LAYER CAPACITORS)

DS Radial Type, Standard Series

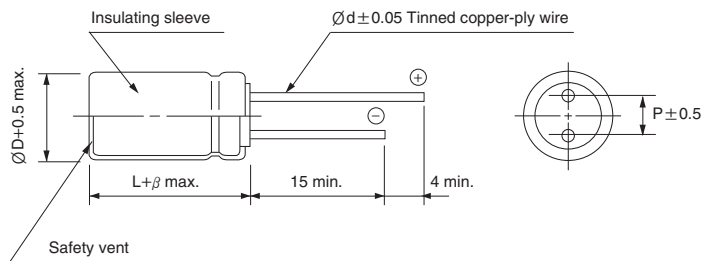
- Endurance : 2.5V 70°C 1000 hours, 2.7V 60°C 1000 hours
- The small size and high capacitance, low resistance
- Can be charge and discharge more times than secondary batteries



Item	Characteristics	
Operating temperature range	-25 ~ +70°C	-40 ~ +60°C
Rated Voltage	2.5 VDC	2.7 VDC
Capacitance tolerance	-20 ~ +20% at 20°C	
Low temperature characteristics	Capacitance change	Within $\pm 5\%$ of initial value at +20°C
	Internal resistance	Within 150% of initial value at +20°C
Endurance (2.5V:70°C, 2.7V:60°C)	Test time	1000 hours
	Capacitance change	Within $\pm 30\%$ of initial specified value
	Internal resistance	Less than 100% of initial specified value
Shelf life (70°C)	After 1000 hours no load test same as endurance	
Life Time at RT ⁽¹⁾	10 years	(1) $ \Delta C < 30\%$ and $\Delta ESR < 200\%$ of initially specified value, respectively and $LC < \text{specified value}$
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



ØD	8	10	16	18	22
P	3.5	5	7.5	7.5	10.0
Ød	0.6	0.6	0.8	0.8	1.0
β	1.5	2.0		3.0	

CHARACTERISTIC LIST & DIMENSIONS

Rated Voltage	Capacitance (F)	ESR, 1KHz (mΩ)	ESR, DC (mΩ)	LC (72hr) (mA Max.)	Specific Energy		Specific Power		Weight (g)	Volume (ml)	Dimension ØD × L (mm)
					(Wh/kg)	(Wh/L)	(W/kg)	(W/L)			
2.5	3	140	350	0.008	1.63	2.59	1,339	2,132	1.6	1.0	8 × 20
	5	110	250	0.013	1.97	2.76	1,364	1,910	2.2	1.6	10 × 20
	10	65	120	0.025	2.48	3.68	1,786	2,653	3.5	2.4	10 × 30
	25	35	65	0.063	2.89	4.32	1,538	2,296	7.5	5.0	16 × 25
	60	20	30	0.150	3.77	5.12	1,812	2,456	13.8	10.2	18 × 40
2.7	3	60	90	0.008	2.17	3.02	6,943	9,669	1.4	1.0	8 × 20
	5	50	70	0.014	2.41	3.22	5,951	7,956	2.1	1.6	10 × 20
	10	30	50	0.027	3.49	4.30	6,033	7,426	2.9	2.4	10 × 30
	25	20	35	0.068	3.78	5.04	3,730	4,972	6.7	5.0	16 × 25
	50	10	20	0.140	4.40	4.97	3,803	4,297	11.5	10.2	18 × 40