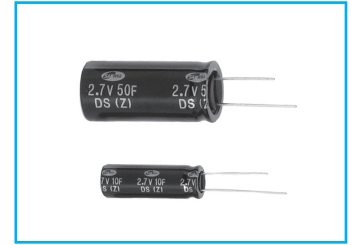


DS Radial Type, Standard Series

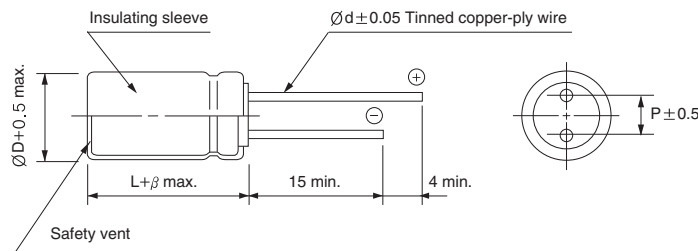
- Endurance : 2.5V 70°C 1000 hours, 2.7V 65°C 1000 hours, 3.0V 65°C 1000 hours
- The small size and high capacitance, low resistance
- Can be charge and discharge more times than secondary batteries



Item	Characteristics		
Operating temperature range	-30 ~ +70°C	-40 ~ +65°C	-40 ~ +65°C
Rated Voltage	2.5 VDC	2.7 VDC	3.0 VDC
Capacitance tolerance	0 ~ +20% at 20°C		
Temperature characteristics	Capacitance change	Within ±5% of initial value at +20°C	
	Internal resistance change	Within 50% of initial value at +20°C	
Endurance (2.5V:70°C, 2.7V:65°C, 3.0V:65°C)	Test time	1000 hours	
	Capacitance change	Within ±30% of specified value	
	Internal resistance change	Less than 100% of specified value	
Shelf life(2.5V:70°C, 2.7V:65°C, 3.0V:65°C)	After 1000 hours no load test same as endurance		
Life Time at RT ⁽¹⁾	10 years	(1) ΔC < 30% and ΔESR < 100% of 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



ØD	8	10	16	18
P	3.5	5.0	7.5	7.5
Ød	0.6	0.6	0.8	0.8
β	1.5		2.0	

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	120	260	0.007	1.63	2.60	1,803	2,885	1.6	1.0	8 × 20
	5	70	150	0.010	1.97	2.71	2,273	3,125	2.2	1.6	10 × 20
	10	55	100	0.020	2.48	3.62	2,143	3,125	3.5	2.4	10 × 30
	25	35	65	0.020	2.89	4.34	1,538	2,308	7.5	5.0	16 × 25
	50	20	30	0.120	3.15	4.26	1,812	2,451	13.8	10.2	18 × 40
2.7	3	50	80	0.007	2.17	3.04	7,811	10,935	1.4	1.0	8 × 20
	5	45	60	0.010	2.41	3.16	6,943	9,113	2.1	1.6	10 × 20
	10	25	45	0.023	3.49	4.22	6,703	8,100	2.9	2.4	10 × 30
	15	20	40	0.030	3.38	4.90	4,860	7,055	4.5	3.1	12.5 × 25
	25	15	25	0.045	3.78	5.06	5,223	6,998	6.7	5.0	16 × 25
	33	11	20	0.060	3.34	4.13	4,374	5,400	10.0	8.1	18 × 32
	50	9	15	0.075	4.40	4.96	5,071	5,718	11.5	10.2	18 × 40
3.0	100	8	13	0.180	4.82	5.92	3,204	3,935	21.0	17.1	22 × 45
	3	60	105	0.010	2.34	3.75	6,429	10,286	1.6	1.0	8 × 20
	5	50	90	0.015	2.84	3.91	5,455	7,500	2.2	1.6	10 × 20
	10	30	45	0.030	3.57	5.21	6,857	10,000	3.5	2.4	10 × 30
	15	25	40	0.050	4.17	6.05	6,000	8,710	4.5	3.1	12.5 × 25
3.0	25	20	30	0.070	4.17	6.25	4,800	7,200	7.5	5.0	16 × 25
	50	10	20	0.150	4.53	6.13	3,913	5,294	13.8	10.2	18 × 40