

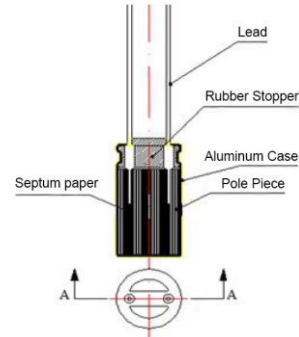
Kingtronics®

DKT-DX

Radial Type Super Capacitor

STRUCTUR

This product adopts the shape of a cylindrical capacitor. The interior is a wound structure, and the positive and negative electrodes are separated by a separator and impregnated with electrolyte components; the aluminum casing is sealed with a rubber stopper, the lead-out method is wire lead-out, and the lead-out pole is on the same side of the product



APPLICATIONS

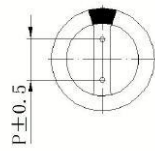
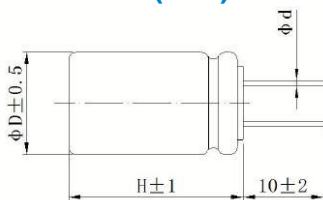
- ◆ Smart meter: smart electricity meter, smart water meter, smart gas meter
- ◆ Car electronics: car audio, ETC system, driving recorder
- ◆ IoT 5G: smart TV, smart refrigerator, smart electronic door, anti-theft system, 5G terminal
- ◆ Backup power supply: communication equipment, wireless transmission, RAM, UPS, small household appliances, small energy storage devices, green energy, solar street lights



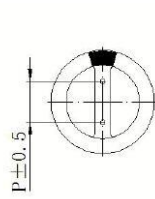
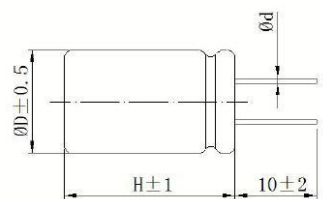
SPECIFICATIONS

Operating Voltage Range	2.5V~3.8V
Surge Voltage	4.2V
Cut-off discharge voltage	2.5V
Cap. Tolerance	-20%~+20%
Operating Temp.	-20°C~65°C; -20°C~85°C (3.5V)
Self Discharge (3months)	3.0V
Cycle life Expectancy	Normal temperature cycle life: 250,000times. $\Delta C/C$ $\leq 30\%$, ESR ≤ 2 times the specified value
High temperature load	+65°C rated voltage, or +85°C 3.5V voltage, after 1000h, $\Delta C/C$ $\leq 30\%$, ESR ≤ 2 times the specified value
High temperature without load	+65°C, after 1000h, $\Delta C/C$ $\leq 30\%$, ESR ≤ 2 times the specified value
Temperature characteristics	+70°C $\Delta C/C$ $\leq 30\%$, ESR \leq specified value; -20°C $\Delta C/C$ $\leq 50\%$, ESR ≤ 4 times the specified value
The steady state damp heat test	+40°C, 90~95%RH, 240h, $\Delta C/C$ $\leq 30\%$, ESR ≤ 2 times the specified value

DIMENSIONS (mm)



ΦD	P	Φd
6.3	2.5	0.5±0.05
8	3.5	0.6±0.1
10	5.0	0.6±0.1
12.5	5.0	0.6±0.1



ØD	P	Ød
16	7.5	0.8±0.05
18	7.5	0.8±0.05

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STANDARD RATINGS

Rated Cap. (F)	Size ϕ DxH (mm)	ESR DC (m Ω)	ESR AC (1KHz) (m Ω)	Rated Current (A)	Pulse Current (A)	Leakage Current (μ A)
Rated voltage: 3.8V						
6.5	6.3x10	7000	3500	0.03	0.20	4.0
8	6.3x12.5	7000	3500	0.04	0.25	4.0
10	8x13	2200	800	0.06	0.35	5.0
15	6.3x22	2000	800	0.08	0.45	5.5
20	8x16	1000	500	0.10	0.55	6.0
30	8x20	900	300	0.15	0.90	6.5
38	8x24	700	200	0.20	1.00	7.0
40	8x20	600	200	0.22	1.00	7.0
40	10x16	600	200	0.22	1.00	7.0
50	10x20	600	200	0.28	1.40	7.0
70	10x25	320	120	0.40	2.30	9.0
80	10x20	320	120	0.45	2.50	12.0
100	10x30	250	100	0.60	3.00	13.0
120	12.5x21	250	100	0.70	3.50	18.0
150	12.5x25	250	100	0.80	4.50	20.0
250	12.5x34	200	70	1.40	7.50	30.0
300	16x26	200	70	1.60	9.00	40.0
500	16x34	150	50	2.80	16.00	65.0
800	18x41	80	30	4.50	26.00	110.0
1000	18x60	60	25	5.50	36.00	130.0

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HOW TO ORDER

DKT	DX	3R8	104	M	00500120	020	000	R	B	R
Series	Sub Series	Voltage	Capacity	Capacity Tolerance	Dimension	Pitch/Pins	Lead Length	Terminal Options	Packing	Pb
		1.	2.	3.	4.	5.	6.	7.	8.	9.

NOTE:**1. Voltage**

Code	2R5	3R8
Voltage	2.5	3.8

2. Capacity

Code	104	105	106	107	108
Capacitance (F)	0.1	1.0	10	100	1000

3. Capacity Tolerance

Code	M	V	F
Tolerance	±20%	-10%~+20%	0%~+30%

4. Dimension

Code	00500120	00630125	01000200	01250210	01600260	05101080
Dimension (mm)	5x12	6.3x12.5	10x20	12.5x21	16x26	51x108

5. Pitch/Pins/Screw

Code	016	020	025	035	050	075	100	127	218	282	4PS	
Pitch (mm)/ Pins	1.6	2.0	2.5	3.5	5.0	7.5	10.0	12.7	21.8	28.2	4pins	
Code	000											
Pitch (mm) Screw												

6. Lead Length

Code	000	040	045	050
Lead Length	Standard	4.0	4.5	5.0

7. Terminal Options

Code	R	S	W
Terminal Options	Radial	Snap-in	Screw

8. Packing

Code	A	B
Packing	Ammo	Bulk

9. Pb

Code	L	R
Pb	Leaded	RoHS

Note: Specifications are subject to change without notice.

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