



## Aluminum Electrolytic Capacitor Part Number System

EC	473	M	1C	A	12	T	15	BE	XX
Type	Capacitance	Tolerance	Rated Voltage	Diameter	Fact Size	Package	Fact Extent	Color	Internal Code
EC=Common	$0R5=5\times10^{-1}=0.5\text{PF}$	J= $\pm 5\%$	1H=50V	A=3mm		T=Tap		BE=Blue	
NP=Non-Polar	$1R0=10\times10^{-1}=1\text{PF}$	K= $\pm 10\%$	2A=100V	B=2mm		B=Bluk		BK=Black	
BP=Tape Type	$150=15\times10^0=15\text{PF}$	M= $\pm 20\%$	2E=250V	T=2.5mm				GR=Green	
EA=Axial Type	$101=10\times10^1=100\text{PF}$	Z= $+80-20\%$	2G=400V	U=3.5mm					
	$332=33\times10^2=3300\text{PF}$		2W=450V	S=3.8mm					
	$473=47\times10^3=47000\text{PF}$			C=4mm					
	$104=10\times10^4=0.1\mu\text{F}$			D=5mm					
				W=6mm					
				E=6.3mm					
				Y=7mm					
				F=8mm					
				G=10mm					
				H=12mm					
				I=12.5mm					
				J=13mm					
				K=16mm					
				L=18mm					
				M=20mm					
				N=22mm					
				O=25mm					
				P=30mm					
				Q=35mm					
				R=40mm					
				V=51mm					



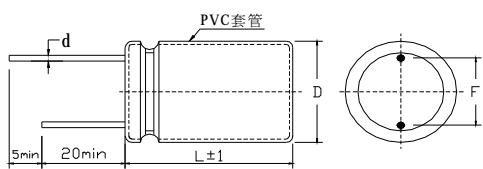
## Commonly Model Aluminum Electrolytic Capacitors

- Suit to a various of Coupling, Bypass, Filter...etc

### ▲ Specifications

Temp Range Capacitance Tolerance	-40°C ~+105°C ±20% (25°C 120Hz)				
	Leakage Current $I \leq 0.01CV + 3$				
Dissipation Factor (tg δ) (25°C 120Hz)	10V	16V	25V	35V	50V
	$\leq 0.3$	$\leq 0.25$	$\leq 0.25$	$\leq 0.2$	$\leq 0.2$
Shelf Life (105°C 96h)	Within ±10% of the initial measured value				
	Less than 200% the initial specified value				
	Less than 150% the initial specified value				
Load Life (105°C 1000h)	Within ±20% of the initial measured value				
	Less than the initial specified value				
	Less than 200% the initial specified value				

### ▲ Case Size Table



Unit:mm								
D	5	6	8	10	13	16	18	22
d	0.5	0.5	0.5	0.6	0.6	0.6	0.8	1.0
F	2	2.5	3.5	5	6.5	8	8	10

Voltage	10V	16V	25V	35V	50V
Capacitor	13V	20V	32V	44V	63V
0.1MF	φ 5x11				
0.22	φ 5x11				
0.33	φ 5x11				
0.47	φ 5x11				
1	φ 5x11				
2.2	φ 5x11				
3.3	φ 5x11				
4.7	φ 5x11				
10	φ 5x11				
22	φ 5x11				
33	φ 5x11	φ 5x11	φ 5x11	φ 5x11	φ 6x12
47	φ 5x11	φ 5x11	φ 5x11	φ 6x12	φ 6x12
100	φ 5x11	φ 5x11	φ 6x12	φ 6x12	φ 8x12
220	φ 6x12	φ 6x12	φ 8x12	φ 8x14	φ 10x17
330	φ 8x12	φ 8x12	φ 8x14	φ 8x16	φ 10x20
470	φ 8x12	φ 8x12	φ 8x16	φ 10x17	φ 12x20
1000	φ 8x16	φ 10x17	φ 10x20	φ 12x20	φ 13x25
2200	φ 10x20	φ 12x21	φ 13x25	φ 16x25	φ 16x35
3300	φ 12x20	φ 13x25	φ 16x25	φ 16x35	φ 18x36
4700	φ 13x21	φ 16x25	φ 16x32	φ 18x36	φ 22x38

REMARK: LOW LEAKAGE CURRENT CAPACITANCE TOLERANCE: ± 10%; LEAKAGE CURRENT :  $I \leq 0.002CV$



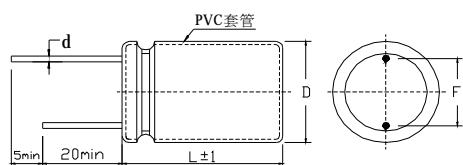
## Mini Size Model Aluminum Electrolytic Capacitors

- Suit to a various of Coupling, Bypass, Filter...etc

### ▲ Specifications

Temp Range	-40°C ~ +105°C					
Capacitance Tolerance	±20% (25°C 120Hz)					
Leakage Current	$I \leq 0.01CV + 3$ (which is larger)					
Dissipation Factor ( $\tg \delta$ ) (25°C 120Hz)	6.3V	10V	16V	25V	35V	50V
	$\leq 0.24$	$\leq 0.21$	$\leq 0.18$	$\leq 0.15$	$\leq 0.13$	$\leq 0.12$
Shelf Life (105°C 96h)	Within ±10% of the initial measured value					
	Less than 200% the initial specified value					
	Less than 150% the initial specified value					
Load Life (105°C 1000h)	Within ±20% of the initial measured value					
	Less than the initial specified value					
	Less than 200% the initial specified value					

### ▲ Case Size Table



Unit:mm				
D	4	5	6.3	8
d	0.45	0.45	0.45	0.5
F	1.5	2.0	2.5	3.5

Voltage Capacitor	6.3V	10V	16V	25V	35V	50V
0.1MFD						$\phi 4 \times 7$
0.22						$\phi 4 \times 7$
0.33						$\phi 4 \times 7$
0.47						$\phi 4 \times 7$
1						$\phi 4 \times 7$
2.2						$\phi 4 \times 7$
3.3						$\phi 4 \times 7$
4.7						$\phi 4 \times 7$
10				$\phi 4 \times 7$	$\phi 4 \times 7$	$\phi 5 \times 7$
22	$\phi 4 \times 7$	$\phi 5 \times 7$	$\phi 6.3 \times 7$			
33	$\phi 4 \times 7$	$\phi 5 \times 7$				
47	$\phi 4 \times 7$	$\phi 4 \times 7$	$\phi 4 \times 7$	$\phi 5 \times 7$	$\phi 6.3 \times 7$	
100	$\phi 5 \times 7$	$\phi 5 \times 7$	$\phi 6 \times 7$	$\phi 6.3 \times 7$	$\phi 8 \times 7$	
220	$\phi 6.3 \times 7$	$\phi 6.3 \times 7$	$\phi 6.3 \times 7$	$\phi 8 \times 7$		



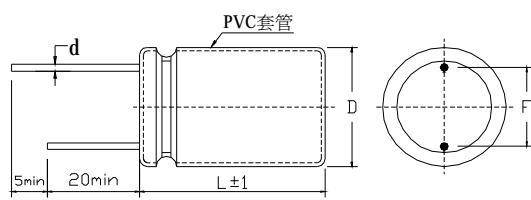
## CDT02 Model Aluminum Electrolytic Capacitors

- Small Size and high strength voltage.
- Applications on: Ballast, Adapter, Charger, Audio Equipment, Switching Power Supply...etc.

### ▲ Specifications

Temp Range	-40°C ~+105°C
Capacitance Tolerance	±20% (25°C 120Hz)
Leakage Current I (25°C 1min)	I≤0.03CV(uA)
Dissipation Factor (tg δ)	tg δ ≤0.15 (25°C 120Hz)
Shelf Life ( 105°C 96h )	Within ±10% of the initial measured value
	Less than 200% the initial specified value
	Less than 150% the initial specified value
Load Life ( 105°C 1000h )	Within ±20% of the initial measured value
	Less than the initial specified value
	Less than 200% the initial specified value
Other	See criterion GB5993、GB5994

### ▲ Case Size Table



Unit:mm						
D	8	10	12	13	16~18	22
d	0.6			0.8		
F	3.5	5		8	10	

Capacitor \ Voltage	200V	250V	400V	450V
2.2uF		φ 8×12	φ 8×14	φ 8×16
3.3uF		φ 8×12	φ 10×13	φ 10×15
4.7uF	φ 8×12	φ 8×14	φ 10×15	φ 10×17
6.8uF	φ 8×14	φ 10×15	φ 10×17	φ 12×21
10uF	φ 8×16	φ 10×17	φ 10×20	φ 13×21
15uF	φ 10×15	φ 10×20	φ 13×21	φ 13×26
22uF	φ 10×17	φ 10×20	φ 13×25	φ 16×27
33uF	φ 12×21	φ 13×21	φ 16×27	φ 16×32
47uF	φ 13×21	φ 13×26	φ 18×27	φ 18×32
68uF	φ 13×26	φ 16×27	φ 22×28	
100uF	φ 16×27	φ 16×32	φ 22×32	
150uF	φ 18×27	φ 18×32		
220uF	φ 18×32			



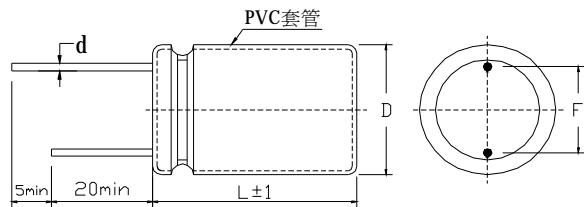
## CDT03 Model Aluminum Electrolytic Capacitors

- Products with low leakage current, long life, low impedance...etc.
- Applications on: Ballast, Adapter, Switching Power Supply...etc.

### ▲ Specifications

Temp Range	-40°C ~ +105°C			
Capacitance Tolerance	±20% (25°C 120Hz)			
Leakage Current I(25°C 1min)	$I \leq 0.02CV(\mu A)$			
Dissipation Factor tg δ (25°C 120Hz)	200V $\leq 0.10$	250V $\leq 0.08$	400V $\leq 0.07$	450V $\leq 0.08$
Shelf Life (105°C 96h)	Within ±10% of the initial measured value			
	Less than 200% the initial specified value			
	Less than 150% the initial specified value			
Load Life (105°C 2000h)	Within ±20% of the initial measured value			
	Less than the initial specified value			
	Less than 200% the initial specified value			
Other	See criterion GB5993、GB5994			

### ▲ Case Size Table



Unit:mm					
D	8	10	12	13	16
d	0.6				0.8
F	3.5	5			8

Capacitor \ Voltage	200V	250V	400V	450V
2.2uF		$\phi 8 \times 12$	$\phi 8 \times 14$	$\phi 10 \times 13$
3.3uF		$\phi 8 \times 12$	$\phi 10 \times 15$	$\phi 10 \times 15$
4.7uF	$\phi 8 \times 12$	$\phi 8 \times 14$	$\phi 10 \times 17$	$\phi 10 \times 20$
6.8uF	$\phi 8 \times 14$	$\phi 10 \times 15$	$\phi 10 \times 20$	$\phi 12 \times 21$
10uF	$\phi 8 \times 16$	$\phi 10 \times 17$	$\phi 12 \times 21$	$\phi 13 \times 21(13 \times 18)$
15uF	$\phi 10 \times 15$	$\phi 10 \times 20$	$\phi 13 \times 21$	$\phi 13 \times 26$
22uF	$\phi 10 \times 17$	$\phi 12 \times 21$	$\phi 13 \times 26$	$\phi 16 \times 27$
33uF	$\phi 12 \times 21$	$\phi 13 \times 21$	$\phi 16 \times 27(\phi 16 \times 20)$	$\phi 16 \times 32$
47uF	$\phi 13 \times 21$	$\phi 13 \times 26$	$\phi 18 \times 26(18 \times 23)$	$\phi 18 \times 32$
68uF	$\phi 16 \times 27$	$\phi 16 \times 27$	$\phi 18 \times 32(22 \times 26)$	
100uF	$\phi 16 \times 32$	$\phi 18 \times 32$	$\phi 18 \times 36$	
150uF	$\phi 18 \times 26$	$\phi 18 \times 32$	$\phi 18 \times 42$	



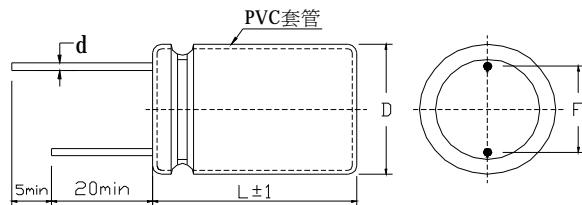
## CDT03 Model Aluminum Electrolytic Capacitor

- Low ESR and Impedance at high frequency、long life etc.
- Applications on: Ballast and Adapter etc.

### ▲ Specifications

Temp Range	-40°C ~ +105°C		
Capacitance Tolerance	-10%~+(25°C 120Hz)		
Leakage Current I(25°C 1min)	$I \leq 0.02CV(uA)$		
Dissipation Factor (tg δ) (25°C 120Hz)	200V $\leq 0.25$	250V $\leq 0.20$	400V $\leq 0.20$
Shelf Life (105°C 96h)	Within ±10% of the initial measured value Less than 200% the initial specified value Less than 150% the initial specified value		
Load Life (105°C 3000h)	Within ±20% of the initial measured value Less than the initial specified value Less than 200% the initial specified value		
Other	See criterion GB5993、GB5994		

### ▲ Case Size Table



D	8	10	12	13	16
d				0.6	0.8
F	3.5		5		8

Capacitor	Voltage 200V	Voltage 250V	Voltage 400V
2.2uF		φ 8×12	φ 8×14
3.3uF		φ 8×12	φ 10×15
4.7uF	φ 8×14	φ 8×14	φ 10×17
6.8uF	φ 10×13	φ 10×15	φ 10×20
10uF	φ 10×15	φ 10×17	φ 12×21
15uF	φ 10×17	φ 10×20	φ 13×21
22uF	φ 10×20	φ 12×21	φ 13×25
33uF	φ 12×21	φ 13×21	φ 16×27
47uF	φ 13×21	φ 13×26	

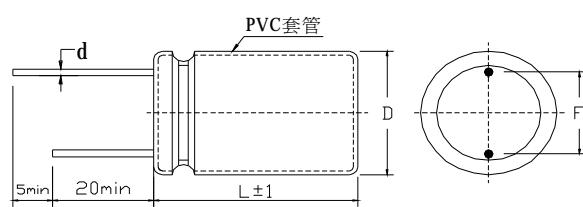
## CDT05 Model Aluminum Electrolytic Capacitors

- Products with low leakage current at high frequency, and high temperature resistance, long life etc.
- Applications on: Ballast, Adapter, Switching Power Supply etc.

### ▲ Specifications

Temp Range	-40°C ~ +105°C
Capacitance Tolerance	-10%~+(25°C 120Hz)
Leakage Current I(25°C 1min)	$I \leq 0.02CV + 15(\mu A)$ (1min)
Dissipation Factor ( $\tan \delta$ )	$\tan \delta \leq 0.06$ (25°C 100Hz) $\tan \delta \leq 0.15$ (25°C 1000Hz)
Shelf Life (105°C 96h)	Within ±10% of the initial measured value
	Less than 200% the initial specified value
	Less than 150% the initial specified value
Load Life (105°C 3000h)	Within ±20% of the initial measured value
	Less than the initial specified value
	Less than 200% the initial specified value
Other	See criterion GB2693、GB5993

### ▲ Case Size Table



Unit:mm

D	8	10	12	13	16
d	0.6				1
F	4	5			8

Capacitor	Voltage	200V	250V	400V
3.3uF			φ 8×14	φ 10×15
4.7uF		φ 8×14	φ 10×13	φ 10×17
6.8uF		φ 10×13	φ 10×15	φ 10×20
10uF		φ 10×15	φ 10×17	φ 13×21
15uF		φ 10×17	φ 10×20	φ 13×24
22uF		φ 10×20	φ 13×21	φ 16×25
33uF		φ 12×21	φ 13×24	φ 16×32