



LARGE SIZED ALUMINUM ELECTROLYTIC CAPACITORS

TDC Series

• 105°C 2,000Hrs assured.

- Non-solvent proof.
- Downsized.
- For SMPS, Inverter.
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics		
Rated Voltage Range	160 ~ 500 V _{DC}		
Operating Temperature Range	-25 ~ +105°C		
Capacitance Tolerance	$\pm 20\%$ (M) (at 20°C, 120Hz)		
Leakage Current	I = 0.02CV or 3mA, whichever is smaller. Where, I: Leakage current(μA) V: Rated voltage(V _{DC}) C:Nominal capacitance(μF) (at 20°C, 5 minutes)		
* Dissipation Factor(Tanδ)	Rated Voltage(V _{DC})	160~400	420~500
	Tanδ(Max.)	0.15	0.20
	(at 20°C, 120Hz)		
Temperature Characteristics (Max.Impedance ratio)	Rated Voltage(V _{DC})	160~400	420~500
	Z(-25°C)/Z(20°C)	4	8
	(at 120Hz)		
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 105°C. Capacitance change $\leq \pm 20\%$ of the initial value Tanδ $\leq 200\%$ of the initial specified value Leakage Current \leq The initial specified value		
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the exposing them at 105°C for 1,000 hours without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change $\leq \pm 20\%$ of the initial value Tanδ $\leq 200\%$ of the initial specified value Leakage Current \leq The initial specified value		
Others	Satisfied characteristics KS C IEC 60384-4		

* For capacitors with CV products > 100,000 Higher Tanδ value may apply.
When the capacitance exceeds 1,000μF, 0.01 shall be added every 1,000μF increase.

RATED RIPPLE CURRENT

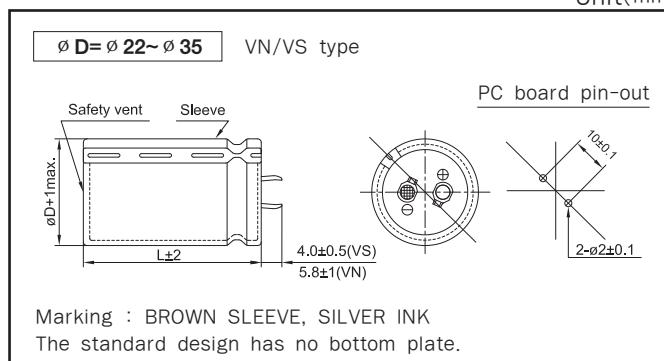
When capacitors are operated in any other condition at 120Hz, the maximum ripple current must be multiplied by the figure shown in the table.

Frequency multiplying factor

V _{DC}	Freq.(Hz)	60	120	300	1k	10k~
160~250V _{DC}		0.81	1.00	1.17	1.32	1.45
315~500V _{DC}		0.77	1.00	1.16	1.30	1.41

DIMENSIONS OF TDC Series

Unit(mm)



RATINGS OF TDC Series

μF	V _{DC} Ø D	160				200				250			
		22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
180										22 × 20 0.78			
220										22 × 25 1.00	25.4 × 20 0.95		
270					22 × 25 1.20						25.4 × 20 1.10		
330	22 × 20 1.20				22 × 25 1.28	25.4 × 20 1.27				25.4 × 25 1.20	30 × 20 1.26	35 × 20 1.30	
390	22 × 25 1.32	25.4 × 20 1.39	30 × 20 1.31		22 × 25 1.31	25.4 × 20 1.43	30 × 20 1.43				30 × 25 1.44	35 × 20 1.49	
470	22 × 30 1.46	25.4 × 25 1.51	30 × 20 1.54		22 × 30 1.45	25.4 × 25 1.53	30 × 20 1.53				30 × 25 1.57	35 × 20 1.57	
560	22 × 30 1.66	25.4 × 25 1.68	30 × 25 1.68		22 × 40 1.67	25.4 × 30 1.67	30 × 25 1.67	35 × 20 1.67			30 × 30 1.80	35 × 25 1.72	
680	22 × 35 1.87	25.4 × 30 1.88	30 × 25 1.96		22 × 45 1.75	25.4 × 35 1.75	30 × 25 1.74	35 × 20 1.72			30 × 30 1.94	35 × 30 2.10	
820	22 × 40 2.09	25.4 × 30 2.14	30 × 25 2.15	35 × 25 2.04	22 × 50 2.04	25.4 × 40 2.04	30 × 30 2.04	35 × 25 2.04			30 × 35 2.29	35 × 30 2.36	
1,000		25.4 × 35 2.38	30 × 30 2.40	35 × 25 2.55			30 × 35 2.30	35 × 30 2.30			30 × 45 2.59	35 × 35 2.63	
1,200		25.4 × 40 2.66	30 × 35 2.69	35 × 30 2.86				35 × 30 2.65					

μF	V _{DC} Ø D	315				350				400			
		22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
82										22 × 20 0.55			
100	22 × 25 0.75									22 × 25 0.66	25.4 × 20 0.67		
120	22 × 25 0.82				22 × 25 0.72						25.4 × 25 0.76		
150	22 × 30 0.91	25.4 × 25 0.94			22 × 30 0.84	25.4 × 25 0.89				25.4 × 25 0.86	30 × 20 0.89		
180		25.4 × 25 1.13			22 × 35 0.98	25.4 × 30 0.94				25.4 × 30 0.97	30 × 25 1.02	35 × 20 1.02	
220		25.4 × 30 1.19	30 × 25 1.17		22 × 40 1.04	25.4 × 30 1.07	30 × 25 1.13			25.4 × 35 1.12	30 × 30 1.12	35 × 20 1.11	
270		25.4 × 40 1.41	30 × 30 1.28	35 × 20 1.30		25.4 × 35 1.24	30 × 30 1.27			25.4 × 40 1.26	30 × 30 1.27	35 × 25 1.27	
330			30 × 35 1.40	35 × 30 1.49		25.4 × 40 1.39	30 × 35 1.43	35 × 25 1.49			25.4 × 45 1.44	30 × 35 1.43	35 × 30 1.44
390			30 × 40 1.44	35 × 30 1.64		25.4 × 50 1.55	30 × 40 1.60	35 × 30 1.66			25.4 × 50 1.51	30 × 40 1.60	35 × 30 1.63
470			30 × 45 1.71	35 × 35 1.82		25.4 × 50 1.72	30 × 45 1.81	35 × 30 1.83				30 × 45 1.81	35 × 35 1.80
560				35 × 40 2.00				35 × 35 2.07	◀ Case Size Ø D × L(mm)				◀ Rated Ripple Current(Arms/105°C, 120Hz)



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RATINGS OF TDC Series

μF	V _{DC}	420				450				500			
		22	25.4	30	35	22	25.4	30	35	22	25.4	30	35
68						22×20 0.50				22×35 0.50			
82	22×20 0.58					22×25 0.59	25.4×25 0.62			22×40 0.53	25.4×30 0.55		
100	22×25 0.66	25.4×25 0.69				25.4×25 0.70				22×45 0.61	25.4×35 0.64		
120	22×30 0.75	25.4×25 0.77	30×20 0.75			25.4×30 0.75				22×50 0.66	25.4×40 0.71	30×30 0.73	
150	22×40 0.86	25.4×30 0.88	30×25 0.88			25.4×30 0.88	30×25 0.87			25.4×45 0.81	30×35 0.80		
180	22×45 0.96	25.4×35 0.97	30×30 1.02	35×20 1.05		25.4×35 1.01	30×25 1.00			25.4×50 0.86	30×40 0.93	35×30 0.95	
220	22×50 1.11	25.4×40 1.14	30×30 1.14	35×25 1.12			30×35 1.10					30×45 0.94	35×35 0.98
270		25.4×45 1.29	30×40 1.30	35×30 1.35			30×40 1.24	35×30 1.25				30×50 1.07	35×40 1.13
330			30×45 1.48	35×35 1.49				35×35 1.42				30×60 1.28	35×45 1.29
390				35×40 1.64				35×40 1.63					35×50 1.47
470				35×45 1.79				35×45 1.78	◀ Case Size Ø D×L(mm)	◀ Rated Ripple Current(Arms/105°C, 120Hz)			35×60 1.71

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