

RESISTOR & CAPACITOR

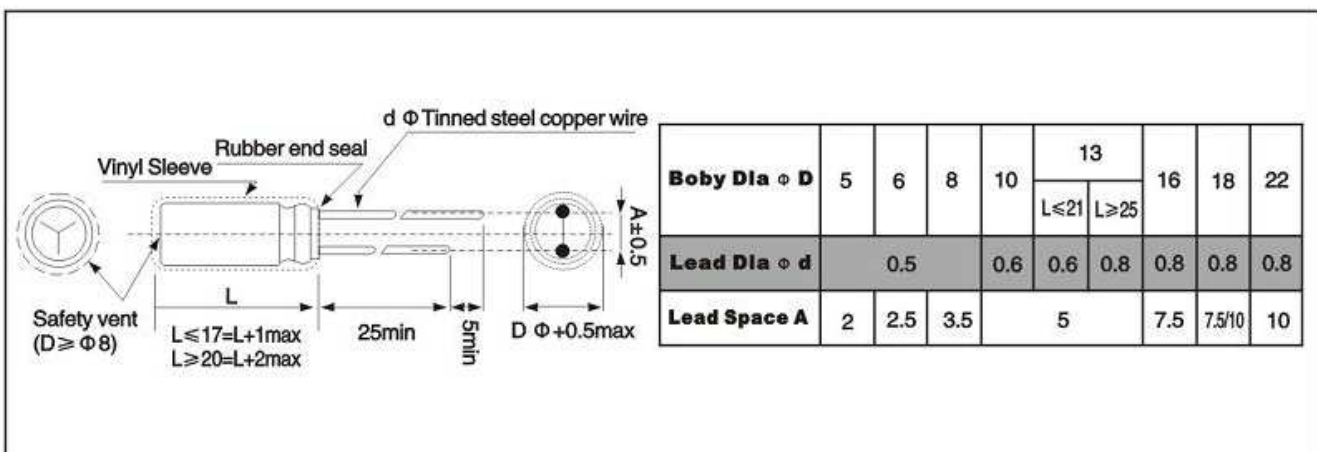
TM Series 高頻低阻抗電容器, 105°C HIGH RIPPLE LOW IMPEDANCE LOWER E.S.R., 105°C CAPACITOR

- Low ESR and low impedance. Aluminum electrolytic capacitors are specially designed for high frequency application requiring low impedance and inductance characteristics.
- High temperature load life at 105°C for 2000 hours

SPECIFICATIONS

Items	Characteristics									
Category										
Temperature Range	-55 to + 105℃									
Rated Voltage Range	6.3 to 100V dc									
Capacitance Tolerance	± 20%(M) (at 25℃,120Hz)									
Leakage Current	I=0.004CV or 3 μ A, whichever is greater.(at 25℃ after 2minute) Where, I:Max. Leakage current(μ A). C:Nominal capacitance(μ F). V:Rated voltage(V) (at 25℃)									
Dissipation Factor (tan δ)	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V	63V	100V	
	Tan δ (Max.)	0.17	0.12	0.11	0.10	0.09	0.08	0.07	0.07	
	When nominal capacitance exceeds 1000 μ F, add 0.02 to the value above for each 1000 μ F increase (at 25℃,120Hz)									
Load.Life	The following specifications shall be satisfied when the capacitors are restored to 25℃ after subjected to DC voltage with the rated ripple current is applied for 2000 hours at 105℃									
	Capacitance change	≤ ± 20% of the initial value								
	DF(tan δ)	≤200% of the initial specified value								
	Leakage current	≤The initial specified value								
Shelf.Life	The following specifications shall be satisfied when the capacitors are restored to 25℃ after exposing them for 500 hours at 105℃ without voltage applied									
	Rated voltage	6.3 to 100 Vdc								
	Capacitance change	≤ ± 20% of the initial value								
	DF(tan δ)	≤200% of the initial specified value								
	Leakage current	≤The initial specified value								

Diagram:(Unit:mm)



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STANDARD RATINGS

μF \ Vdc	6.3	10	16	25	35	50	63	100
4.7						5*11	5*11	5*11
6.8						5*11	5*11	5*11
10						5*11	5*11	6.3*11
15					5*11	5*11	6.3*11	8*12
22				5*11	5*11	5*11	6.3*11	8*12
33			5*11	5*11	5*11	6.3*11	6.3*11	8*16
47			5*11	5*11	6.3*11	6.3*11 8*12	8*12	10*17
68			5*11	5*11	6.3*11	8*12	8*12	10*20
100		5*11	6.3*11	6.3*11	8*12	8*12	10*17	13*20
220	6.3*11	6.3*11	8*12	8*12	8*16 10*17	10*17	13*20	13*25
330	6.3*12 8*12	6.3*15 8*12	6.3*15 8*16	8*16	10*17	10*20	13*25	16*25
470	8*12	8*14	8*14 8*16	10*17	10*20	13*20	13*25	16*32
680	8*14	8*16	8*16 8*20	10*20	13*20	13*25	16*25	16*36
820	8*16	8*16	8*20 10*17	10*20	13*20	16*25	16*36	18*40
1,000	8*12 8*16	8*20 10*20	8*24 10*20	13*20	10*30 13*25	16*25	18*32 18*36	
1,200	8*20 10*17	10*20	10*25 13*20	10*30 13*20	13*25	16*36	18*40	
1,500	10*20	10*25 13*20	10*30 13*20	13*25	13*30 16*25	18*36		
2,200	8*24 10*20	10*25 13*20	10*30 13*25	13*25 13*30	16*32			
3,300	10*25	10*30 13*30	10*35 13*30	16*32	18*36			
4,700	13*25	10*30 13*36	13*36 16*36	18*36	18*40			
6,800	16*25	13*40 16*32	18*36	18*40				
8,200	16*25	16*36	18*36					
10,000	16*36	18*36	18*40					
15,000	18*36							

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STANDARD RATINGS {IMPEDANCE AT 100KHz, 25°C (Ohm)}

μF \ Vdc	6.3	10	16	25	35	50	63	100
4.7						2.40	2.40	2.40
6.8						2.10	2.20	1.85
10						1.80	1.90	1.80
15					2.15	1.40	1.20	1.40
22				1.80	1.50	1.00	0.85	1.00
33			1.26	1.20	1.30	0.80	0.63	0.80
47			0.52	0.48	0.50	0.50 0.53	0.55	0.45
68			0.58	0.58	0.22	0.35	0.52	0.24
100		0.46	0.31	0.28	0.18	0.25	0.35	0.18
220	0320	0.220	0.140	0.12	0.088 0.086	0.10	0.15	0.071
330	0.220 0.180	0.180 0.140	0.130 0.110	0.085	0.065	0.07	0.10	0.07
470	0.140	0.12	0.092 0.090	0.064	0.055	0.050	0.050	0.045
680	0.100	0.090	0.064 0.059	0.046	0.038	0.050	0.052	0.040
820	0.090	0.080	0.060 0.046	0.042	0.034	0.040	0.048	0.036
1,000	0.085 0.069	0.069 0.060	0.055 0.046	0.038	0.030 0.030	0.039	0.045 0.042	
1,200	0.067 0.064	0.046	0.042 0.040	0.035 0.030	0.028	0.025	0.036	
1,500	0.055	0.043 0.040	0.034 0.032	0.028	0.026 0.023	0.025		
2,200	0.043 0.041	0.039 0.035	0.030 0.028	0.030 0.026	0.021			
3,300	0.039 0.035	0.035 0.028	0.024 0.022	0.019	0.019			
4,700	0.028	0.038 0.030	0.024 0.022	0.019	0.019			
6,800	0.028	0.023 0.022	0.019	0.019				
8,200	0.022	0.019	0.019					
10,000	0.019	0.019	0.019					
15,000	0.019							

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STANDARD RATINGS {PERMISSIBLE RIPPLE CURRENT AT 100KHz, 105°C} (mA, ms)

μF \ Vdc	6.3	10	16	25	35	50	63	100
4.7						115	100	115
6.8						160	115	130
10						165	130	150
15					140	175	150	190
22				140	160	190	190	260
33			140	160	190	200	260	310
47		140	160	190	200	265 295	310	440
68		160	190	200	265	310	410	490
100		190	200	265	310	410	440 460	520
220	265	310	410	440	490 510	520	700	1,120
330	280 310	390 410	410 440	490	520	700	900	1,350
470	410	440	455 490	520	700	900	1,120	1,570
680	440	490	500 520	630 700	900	1,120	1,350	1,610
820	490	520	700	900	1,120	1,350	1,570	1,810
1,000	520 580	650 700	790 900	1,120	1,250 1,350	1,570	1,430 1,610	
1,200	560 700	900	1,010 1,120	1,220 1,350	1,570	1,610	1,810	
1,500	900	1,050 1,120	1,220 1,350	1,570	1,590 1,610	1,810	2,240	
2,200	980 1,120	1,220 1,350	1,450 1,570	1,580 1,610	1,710	2,240		
3,300	1,350	1,410 1,570	1,580 1,610	1,710	1,810			
4,700	1,570	1,580 1,670	1,710	1,810	2,240			
6,800	1,610	1,610 1,710	1,810	2,240				
8,200	1,710	1,810	2,240					
10,000	1,810	2,240	2,850					
15,000	2,240							