

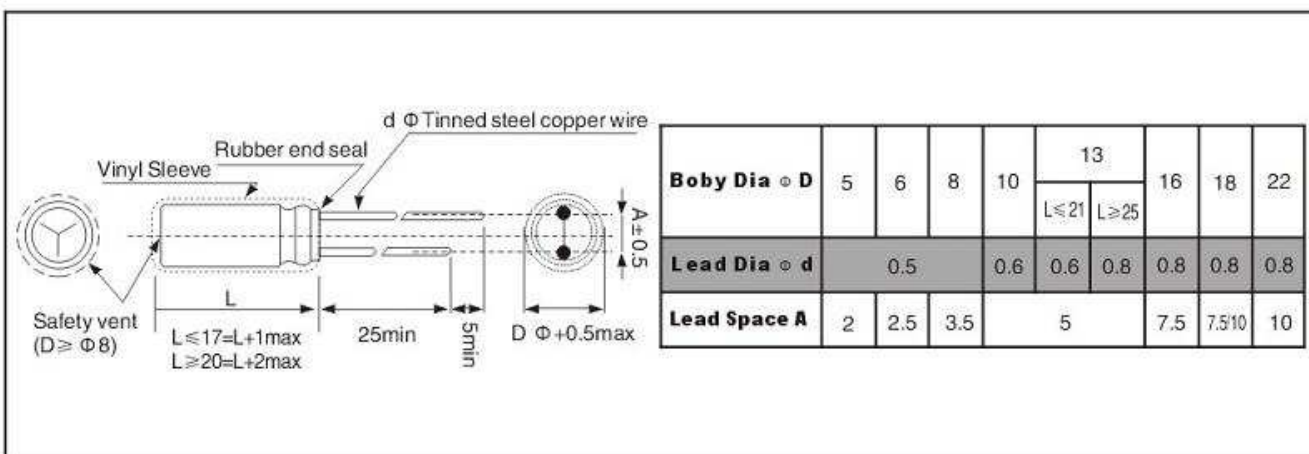
TL Series 長壽命高頻低阻抗電容器, 105°C LONG LIFE HIGH RIPPLE LOW IMPEDANCE LOWER E.S.R., 105°C CAPACITOR

- Low ESR and impedance. high permissible ripple current. at high frequency and higher operation temperature.
- Used in switching regulator. applications in computers. especially for high frequency.
- High temperature load life at 105°C 2000-5000 hours.

SPECIFICATIONS

Items	Characteristics								
Category	-40 to + 105℃								
Temperature Range	-40 to + 105℃								
Rated Voltage Range	6.3 to 63V 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	(at 25℃, 120Hz)
	Tan δ (Max.)	0.19	0.16	0.14	0.12	0.10	0.08	0.08	
Load Life	The following specifications shall be satisfied when the capacitors are restored to 25℃ after the voltage is applied for the specified at 105℃								
	Time	Φ D ≤ 8:2000 hours Φ D=10:3000 hurs Φ D ≥ 13:5000 hours							
	Rated voltage	6.3 to 63 vdc							
	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 63 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
22					5*11	5*11	6.3*11
33					5*11	6.3*11	6.3*11
47				5*11	6.3*11	6.3*11 8*12	8*12
68			6.3*11	6.3*11	6.3*11	8*12	8*16
100		6*11	6.3*11	6.3*11	8*12	8*12	10*17
220	6.3*11	6.3*11	8*12	8*12	8*16 10*20	10*20	13*20
330	8*12	8*12	8*16	8*16	10*17	13*20	13*25
470	8*12	8*14	8*16	10*20	10*20	13*20	13*36
680	8*16	8*16	8*16 8*20	10*20	13*20	13*25	16*32
820	8*16	8*20	10*17	13*20	13*25	13*30	16*36
1000	8*16	10*20	10*20	13*25	13*30	16*32	18*36
1200	10*17	10*20	10*20 13*25	13*30	13*36	16*36	18*36
1500	10*20	10*30 13*20	13*25	13*30	13*40	16*40	
2200	10*25 13*20	13*20 13*25	13*25 13*30	13*36	16*36		
3300	13*25	13*30	13*36	16*32	18*36		
4700	13*30	13*36	16*36	18*36			
6800	16*32	16*36	18*36				

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

μF \ Vdc	6.3	10	16	25	35	50	63
22					1.50	1.00	0.85
33					1.30	0.80	0.63
47				0.50	0.50	0.050 0.045	0.56
68			0.59	0.58	0.28	0.40	0.55
100		0.48	0.42	0.28	0.18	0.25	0.35
220	0.48	0.28	0.20	0.094	0.089	0.110	0.160
330	0.28	0.20	0.13	0.085	0.065	0.086	0.130
470	0.20	0.12	0.078	0.066	0.049	0.068	0.075
680	0.12	0.092	0.070 0.066	0.049	0.040	0.058	0.065
820	0.095	0.082	0.055	0.045	0.038	0.048	0.056
1000	0.089	0.070	0.049	0.039	0.031	0.042	0.049
1200	0.068	0.039	0.043 0.040	0.040	0.038	0.035	0.045
1500	0.055	0.043 0.040	0.040	0.038	0.035	0.030	
2200	0.049 0.045	0.045 0.040	0.038 0.030	0.035	0.030		
3300	0.045	0.038	0.035	0.030	0.028		
4700	0.038	0.035	0.030	0.028			
6800	0.035	0.030	0.028				

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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
22					190	200	250
33					200	250	300
47				150	250	300 350	450
68			150	204	300	450	550
100		150	200	250	450	550	650
220	250	300	550	750	800	1,030	1,150
330	390	470	600	800	1,060	1,300	1,420
470	450	590	750	1,050	1,300	1,400	1,550
680	510	670	980 1,050	1,080	1,400	1,550	1,700
820	620	810	1,220	1,450	1,550	1,700	1,900
1000	750	1,060	1,400	1,450	1,700	1,900	2,100
1200	1,020	1,290	1,450 1,550	1,700	1,900	2,100	2,520
1500	1,200	1,450 1,550	1,650	1,950	2,100	2,420	
2200	1,450 1,530	1,580 1,690	1,920 2,010	2,360	2,700		
3300	1,700	1,800	2,450	2,700	2,800		
4700	1,800	2,200	2,550	2,800			
6800	2,000	2,550	2,800				