

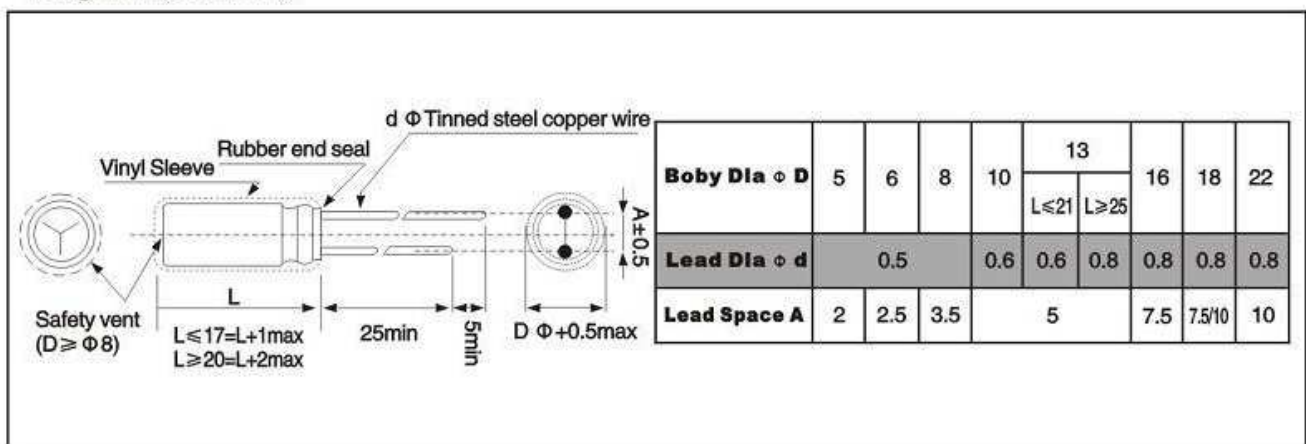
## TN Series 標準品電容器, 105°C STANDARD SIZE, 105°C CAPACITOR

◦ **Endurance with ripple current: 105°C 1000 hours**

### SPECIFICATIONS

Items	Characteristics									
Category										
Temperature Range	-40 to + 105°C									
Rated Voltage Range	6.3 to 100V dc									
Capacitance Tolerance	± 20%(M) (at 25°C, 120Hz)									
Leakage Current	I=0.03CV or 4 μ A, whichever is greater. (at 25°C after 1 minute) I=0.01CV or 3 μ A, whichever is greater. (at 25°C after 1 minute) Where, I:Max. Leakage current( μ A). C:Nominal capacitance( μ F). V:Rated voltage(V) (at 25°C)									
Dissipation Factor (tan δ )	Rated voltage (Vdc)	6.3V	10V	16V	25V	35V	50V	63V	100V	
	Tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	
	When nominal capacitance exceeds 1000 μ F, add 0.02 to the value above for each 1000 μ F increase (at 25°C, 120Hz)									
Load Life	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 1000 hours at 105°C									
	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°C after exposing them for 500 hours at 105°C 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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### SPANDARD RATINGS

$\mu F$	Vdc	6.3	10	16	25	35	50	63	100
0.1							5*11 1.3	5*11 1.9	5*11 2.6
0.22							5*11 2.9	5*11 3.6	5*11 5.8
0.33							5*11 4.4	5*11 5.6	5*11 7.8
0.47							5*11 7.0	5*11 8.0	5*11 10
0.68							5*11 7.0	5*11 9.0	5*11 12
0.82							5*11 9.0	5*11 12	5*11 13
1.0							5*11 13	5*11 13	5*11 15
2.2							5*11 20	5*11 20	5*11 23
3.3							5*11 25	5*11 24	5*11 29
4.7							5*11 30	5*11 32	5*11 34
6.8							5*11 35	5*11 37	5*11 40
10					5*11 40	5*11 43	5*11 46	5*11 50	6.3*11 56
22					5*11 60	5*11 65	5*11 68 6.3*11	6.3*11 82	8*12 96
33				5*11 60	5*11 65	5*11 75	6.3*11 90	6.3*11 100	10*12.5 140
47				5*11 77	5*11 82	6.3*11 8*12 100	6.3*11 110	8*12 135	10*17 180
68	5*11 75	5*11 80	5*11 100	6.3*11 125	8*12 130	8*12 150	10*12.5 195	10*20 235	
100	5*11 95	5*11 105	5*11 115 6.3*11 125	6.3*11 135	6.3*11 150 8*12 170	8*12 180	8*14 10*17 195 225	10*20 320	
220	6.3*11 160	6.3*11 175	6.3*11 195 8*12 215	8*12 230	8*16 250 10*17 300	10*17 345	10*20 400	13*25 570	
330	6.3*11 195	6.3*11 195 8*12 245	6.3*15 8*12 250 260	8*16 335	10*17 400	10*20 460	13*20 540	16*25 700	
470	8*12 270	8*12 290	8*14 370	8*16 395 10*17 440	10*20 520	13*20 610	13*21 13*25 630 700	16*32 800	
680	8*14 320	8*16 400	8*16 500	10*17 650	13*20 700	13*25 850	16*25 1,000	16*36 1,150	
1,000	8*12 8*14 460	8*16 10*17 500 550	8*20 10*20 590 640	10*20 770	13*21 13*25 790 920	13*25 1,080	16*25 1,210		
1,650	10*17 650	10*20 800	10*25 910	13*25 1,010	16*25 1,150	16*32 1,350	16*36 1,400		
2,200	8*24 10*20 720 810	10*20 10*25 860 920	10*30 13*25 960 1,000	13*25 1,170	16*25 1,250 16*32 1,350	18*32 1,530	22*30 1,780		
3,300	10*25 960	10*30 13*25 1,050 1,100	13*30 1300	16*25 1,390 16*32 1,460	18*32 1,650				
4,700	13*25 1,330	13*30 13*30 1,300 1,400	13*34 16*32 1,460 1,600	18*36 1,780	18*40 1,900				
6,800	16*25 1,500	13*40 16*32 1,510 1,690	18*36 1,900	18*40 1,950					
10,000	16*32 1,765	18*36 1,950	18*40 2,060						
15,000	18*36 2,075								

Case size  $\Phi$  D x L (mm)

Rated ripple current (mA<sub>rms</sub>) at 105°C, 120Hz