

# TNX Series

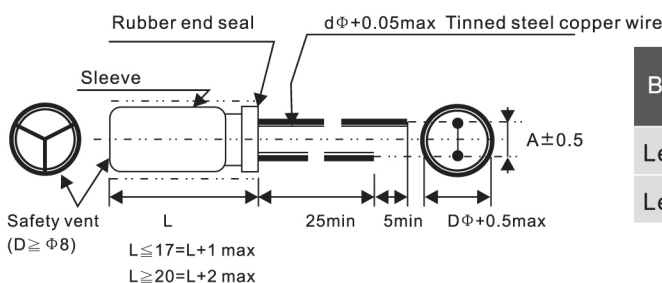


- 105°C, 1000 hours standard series.

• SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	- 40 to +105°C									
Rated Voltage Range	6.3v to 100Vdc									
Capacitance Tolerance	± 20% (M) (at 20°C ,120Hz)									
Leakage Current	I=0.01CV or 3 μA , whichever is greater. Where, I :Max. Leakage current (μA). C : Nominal capacitance (μF) .V :Rated voltage(V) (at 20°C , after 2 minutes)									
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	0.08	0.08	(at 20°C ,120Hz)
For capacitance>1000uF.and 2% per another 1000uF										
Low Temperature Characteristics	Impedance ration max at 120Hz									
	Working voltage	6.3v	10v	16v	25v	35v	50v	63v	100v	
	Z-25°C/ Z+20°C	4	3	2	2	2	2	2	2	
	Z-40°C/ Z+20°C	8	6	4	4	3	3	3	3	
Load. Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the voltage 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 20°C after exposing them for 500 hours at 105°C without voltage applied.									
	Capacitance change	≤ ±20% of the initial value								
	DF (tan δ )	≤200 % of the initial specified value								
	Leakage current	≤ The initial specified value								
Ripple Current Multiplier	Temperature coefficient									
	Temperature(°C)	~55	60	70	85	105				
	Factor	2.20	2.10	2.00	1.75	1.00				
	Frequency coefficient									
	cap \ freq	60	120	1k	10k	100k				
	~100	0.70	1.00	1.40	1.50	1.50				
	100~1000	0.75	1.00	1.30	1.35	1.35				
1000up	0.80	1.00	1.12	1.15	1.15					

• Diagram: (Unit: mm)

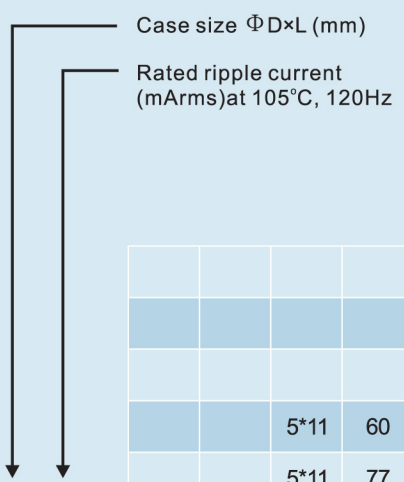


Body Dia ΦD	5	6	8	10	13		16	18
					L≤21	L≥25		
Lead Dia Φd	0.5			0.6	0.6	0.8	0.8	0.8
Lead Space A	2	2.5	3.5	5		7.5		7.5/10

◆ TNX series 105°C 標準品

● STANDARD RATING

$\mu F$ \ Vdc	6.3v		10v		16v		25v		35v		50v		63v		100v	
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	40	5*11	43	5*11	35	5*11	37	5*11	40
10											5*11	46	5*11	50	6.3*11	56
22							5*11	60	5*11	65	5*11	55 68	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*13	140
47					5*11	77	5*11	82	6.3*11	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*13	195	10*20	235
100	5*11	95	5*11	105	6.3*11	125	6.3*11	135	6.3*11 8*12	150 170	8*12	180	8*14 10*17	195 225	10*20	320
220	6.3*11	160	6.3*11	175	8*12	215	8*12	230	8*16 10*17	250 300	10*17	345	10*20	400	13*25	570
330	6.3*11	195	8*12	245	8*12	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 10*17	395 440	10*20	520	13*21	610	13*21 13*25	630 700	16*32	880
680	8*12	320	8*16	400	8*16	500	10*17	650	13*20	700	13*25	850	16*25	1000	16*36	1150
1000	8*12	460	10*17	550	8*20 10*20	590 640	10*20	770	13*21 13*25	790 920	13*25	1080	16*35	1210		
1650	10*17	650	10*20	800	10*25	910	13*25	1010	16*25	1150	16*32	1350	16*36	1400		
2200	10*20	810	10*20 10*25	860 920	10*30 13*25	960 1000	13*25	1170	16*25 16*32	1250 1350	18*32	1530	22*30	1780		
3300	13*21	960	10*30 13*25	1050 1100	13*30	1300	16*25 16*32	1390 1460	18*32	1650						
4700	13*21	1330	10*30 13*30	1300 1400	13*34 16*32	1460 1600	18*36	1780	18*40	1900						
6800	16*25	1500	13*40 16*32	1510 1690	18*36	1900	18*40	1950								
10000	16*25	1765	18*36	1950	18*40	2060										
15000	18*33	2075														



Chip Type SMD  
Miniature Type  
General Purpose  
High Frequency Low Impedance  
High Voltage High Reliability  
Non-polar Type  
Large Size Snap-in  
Large Size Screw  
X Metallized Polypropylene Film Capacitors

Ripple Current : mA/rms at 120Hz 105°C