

NK Series

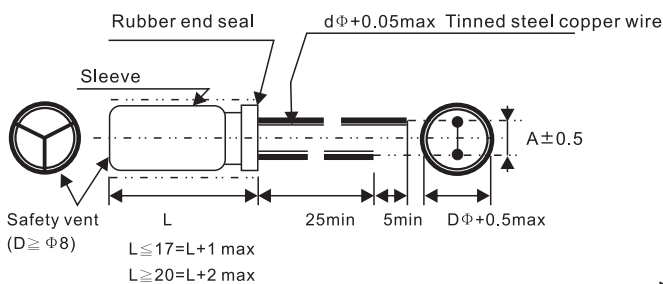
• 105°C, 1000 hours Non-polar series



• SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	- 40 to +105°C									
Rated Voltage Range	6.3V to 100 Vdc									
Capacitance Tolerance	± 20% (M) (at 20°C ,120Hz)									
Leakage Current	I=0.03CV or 4 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.)	0.26	0.24	0.22	0.20	0.16	0.14	0.12	0.10	(at 20°C ,120Hz)
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	3	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								
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing for 1000 hours at 105°C without voltage applied.									
	Capacitance change	≤ ±20% of the initial value								
	DF (tan δ)	≤200 % of the initial specified value								
Ripple Current Multiplier	Temperature coefficient									
	Temperature(°C)	~55	60	70	85	105				
	Factor	2.23	2.17	2.00	1.75	1.00				
	Frequency coefficient									
	cap	freq	60	120	1k	10k	100k			
	~47		0.75	1.00	1.35	1.50	1.50			
100~470		0.80	1.00	1.23	1.35	1.50				
560up		0.85	1.00	1.10	1.13	1.15				

• Diagram: (Unit: mm)



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

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



◆ NK series Non-polar 105°C 無極性標準品

● STANDARD RATING

Vdc μF	6.3		10		16		25		35		50		63		100					
	0.1											5*11	3							
0.22											5*11	5								
0.33											5*11	7								
0.47											5*11	8			5*11	10				
1.0	Case size ΦD×L (mm) Rated ripple current (mA _{rms}) at 105°C, 120Hz										5*11	12	5*11	18	5*11	15				
2.2											5*11	18	5*11	22	6.3*11	22				
3.3											5*11	22	6.3*11	28	8*12	32				
4.7											5*11	25	5*11	26	6.3*11	29	6.3*11	31	8*12	39
10											5*11	30	5*11	34	6.3*11	40	8*12	52	8*12	53
22			5*11	42	6.3*11	51	6.3*11	55	8*12	70	10*12	82	10*16	95	10*20	115				
33			6.3*11	57	6.3*11	63	8*12	80	10*12	85	10*16	105	10*20	130	13*21	165				
47			6.3*11	67	8*12	90	10*12	95	10*12	115	10*20	150	10*20	150	13*25	205				
100	8*12	105	10*12	125	10*12	140	10*16	160	10*20	200	13*25	255	13*25	270	16*25	300				
220	10*12	160	10*16	204	10*20	275	13*25	330	13*25	360	16*25	440	16*30	460						
330	10*16	230	10*20	275	13*20	350	13*25	420	16*25	490	16*30	590								
470	10*20	300	13*21	370	13*25	470	16*25	540	16*25	580										
1,000	13*25	550	16*25	620	16*25	750	16*30	850												

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