

NPX Series

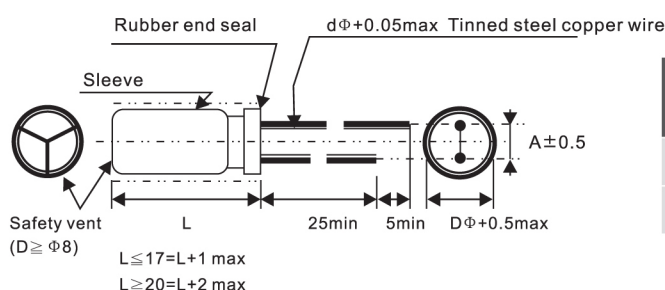
• 85°C, 2000 hours- Non-Polar series

• SPECIFICATIONS



Items	Characteristics									
Category Temperature Range	-40 to +85°C									
Rated Voltage Range	6.3 to 100Vdc									
Capacitance Tolerance	± 20% (M) (at 20°C, 120Hz)					± 20% (M) (at 20°C, 1KHz, ΦD≥8mm)				
Leakage Current	I=0.03CV or 3 μA, whichever is greater					I=0.03CV or 5 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.) 120Hz	0.24	0.24	0.20	0.20	0.16	0.14	0.12	0.10	
	tan δ (Max.) 100KHz				0.18	0.15	0.13	0.12	0.10	
For capacitance > 1000 uF. and 2% per another 1000uF (at 20°C)										
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 10 8 6 4 4 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 2000 hours at 85°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 them for 1000 hours at 85°C without voltage applied.									
	Capacitance change	≤ ±20% of the initial value								
	DF (tan δ)	≤200 % of the initial specified value								
Ripple Current Multiplier	Leakage current ≤ The initial specified value									
	Temperature coefficient									
	Temperature(°C)	~55	60	70	85					
	Factor	1.65	1.50	1.30	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	1.12	1.13	1.15					

• Diagram: (Unit: mm)



Body Dia ΦD	5	6	8	10	13		16	18	22
					L ≤ 21	L ≥ 25			
Lead Dia Φd	0.5		0.6		0.6	0.8	0.8	0.8	0.8
Lead Space A	2	2.5	3.5	5		7.5	7.5/10	10	

◆ NPX series 85°C 無極性標準品

● STANDARD RATING

V _{dc} 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	17			5*11	14
1.0											5*11	20	5*11	18	5*11	22
2.2											5*11	25	5*11	22	6.3*11	33
3.3											5*11	27	5*11	28	6.3*11 8*12	40
4.7							5*11	26	5*11	34	5*11	34	6.3*11	34	6.3*11 8*12	48
10					4*7 5*11	30 42	5*11	42	5*11	43	5*11 6.3*11	52	6.3*11	55	8*12	70
22			5*11	57	5*11	57	6.3*11	65	6.3*11	73	8*12	95	8*12	95	10*16	135
33			5*11	64	5*11	70	5*11 6.3*11	80	8*12	105	8*12	105	10*12	140	13*21	195
47			5*11	76	5*11	95	6.3*11	95	8*12	125	8*12	150	10*16	190	13*21	225
100	6.3*11	130	6.3*11	145	6.3*11 8*12	160	8*12	160	10*16	240	10*20	255	10*20 13*21	300	16*25	400
220	8*12	230	8*12	250	8*12	275	10*16	300	13*21	410	13*21 13*25	480	16*25	560	18*35	710
330	8*12	280	10*16	350	8*12	360	13*21	420	13*21	490	16*25	650	16*30	650		
470	10*12	380	10*16	415	8*12	470	13*21	540	13*25	640	16*30	830	18*35	960		
1,000	10*20	650	10*20	620	10*17	790	16*25	950	16*30	1,100						
2,200	13*25	1,150	16*25	1,240	13*21	1,350	18*36	1,550								
3,300	16*25	1,580	16*30	1,590	13*25 13*30	1,700										
4,700	16*30	2,020	18*35	1,980												
6,800	18*35	2,600														

Case size ΦD×L (mm)
Rated ripple current (mA_{rms}) at 85°C, 120Hz

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 85°C