

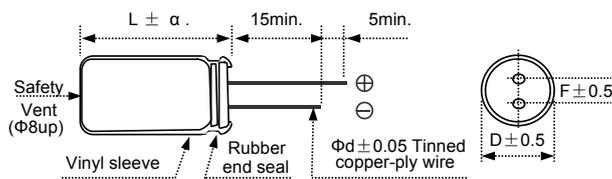
NQ Series

- 105°C Standard bi-polarized type
- RoHS2.0 Compliant

◆ 规格表 Specifications

项目 Items	特性参数 Characteristics										
使用温度范围 Category Temperature Range	-40 ~ +105°C										
额定工作电压范围 Rated voltage Range	6.3 ~ 100V.DC										
静电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20°C,120Hz)										
漏电流 Leakage Current	I≤0.06CV or 10µA, 二者取最大值 (施加额定工作电压2分钟后) Whichever is greater (After 2 minutes application of rated voltage) I≤0.03CV or 3µA, 二者取最大值 (施加额定工作电压5分钟后) Whichever is greater (After 5 minutes application of rated voltage) Note: I= Max. leakage current (µA), C = Nominal capacitance (µF), V = Rated voltage (V) (at 20°C)										
损耗角正切值 tanδ Dissipation Factor	Rated voltage(V)	6.3	10	16	25	35	50	63	80	100	
	tanδ(Max.)	0.24	0.24	0.20	0.20	0.16	0.14	0.12	0.12	0.10	
标称容量超过1000µF,则每增加1000µF,损耗角正切值增加0.02 When nominal capacitance exceeds 1000µF,add 0.02 to the value above for each 1000µF increase. (at 20°C,120Hz)											
低温特性 Low temperature Characteristics (Max.Impedance Ratio)	阻抗比值不得超过下表所列出的值 The impedance ratio shall not exceed the values listed in the table. (at 120Hz)										
	Rated voltage(V)	6.3	10	16	25	35	50	63	80	100	
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2	2	
Z(-40°C)/Z(+20°C)	10	8	6	4	3	3	3	3	3		
耐久性 Endurance	在105°C环境中,不超过额定电压的范围内叠加最大允许纹波电流,连续1000小时,经恢复到20°C后,电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored to 20°C after applied within maximum allowable ripple current and not over rated voltage range for 1000 hours at 105°C.										
	Rated voltage	6.3 ~ 16V.DC					25 ~ 100V.DC				
	Capacitance change	≅ ±25% of the initial value					≅ ±20% of the initial value				
	D.F. (tanδ)	≅ 150% of the specified value									
	Leakage current	≅ The initial specified value									
高温储存特性 Shelf Life	在105°C环境中,不施加电压条件下储存500小时,经恢复到20°C后,电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored at 20°C after exposing them for 500 hours at 105°C without voltage applied.										
	Rated voltage	6.3 ~ 16V.DC					25 ~ 100V.DC				
	Capacitance change	≅ ±25% of the initial value					≅ ±20% of the initial value				
	D.F. (tanδ)	≅ 150% of the initial specified value									
	Leakage current	≅ 200% of the initial specified value									

◆ 尺寸图 (单位: mm) DIMENSIONS (Unit:mm)



ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8

α	(L<20)1.5
	(L≥20)2.0

◆ 尺寸&最大允许纹波电流一览表 Dimensions & maximum allowable ripple current

WV(V) cap.(µF)	6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)		80(1K)		100(2A)	
	0.47											5×11	8					5×11
1.0											5×11	11					5×11	12
2.2											5×11	15			5×11	17	6.3×11	21
3.3											5×11	19	5×11	21	6.3×11	23	6.3×11	25
4.7											5×11	22	6.3×11	24	6.3×11	28	6.3×11	31
10											6.3×11	38	6.3×11	42	8×12	46	8×12	50
22																		
33																		
47																		
100	6.3×11	91	6.3×11	90	8×12	110	8×12	110	10×16	160	10×20	195	13×20	224	13×25	246	16×26	310
220	8×12	151	8×12	155	10×13	198	10×16	220	13×20	295	13×25	345	16×26	406	16×32	435	18×36	515
330	8×12	185	10×16	240	10×16	265	13×20	325	13×20	350	16×26	460	16×32	536	18×36	575		
470	10×13	265	10×16	291	10×20	350	13×20	380	13×25	470	16×32	592	18×36	682				
1,000	10×20	465	13×20	515	13×25	610	16×26	675	16×32	810								
2,200	13×25	820	16×26	915	16×32	1080	18×36	1145										
3,300	16×26	1120	16×32	1210	18×36	1410												
4,700	16×32	1440	18×36	1530														
6,800	18×36	1840																

※铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化,中心温度每升温5°C寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流。
The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.