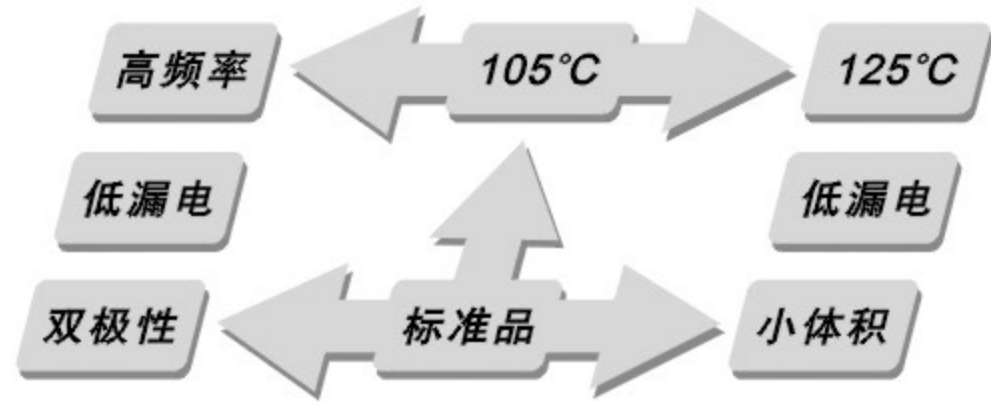


# 双极性 小型铝电解电容器

## NP Series Aluminum Electrolytic Capacitors

### ● 特点:

双极性产品, 标准品, 105°C 2000小时, 适用于极性翻转或极性不明确的电路。  
Standard Bi-polarity series, 105°C 2000 hours, Suitable for use in circuits that polarity is sometimes reversed or unknown.



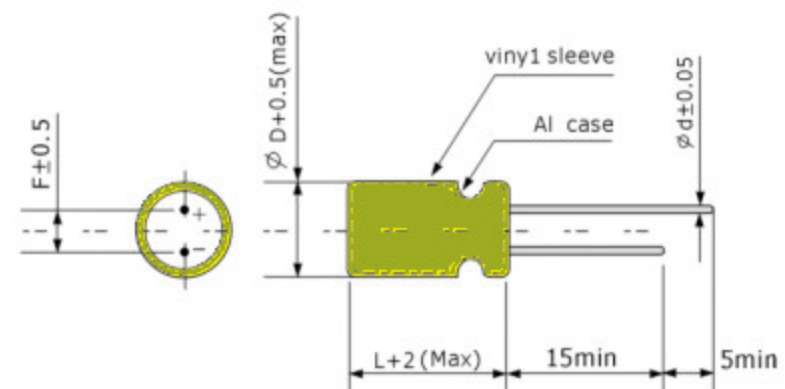
## 主要技术性能 Specifications

使用温度范围 Operating temperature range	-40 ~ +105°C																	
额定电压范围 Rated voltage range	6.3 ~ 100VDC																	
标称电容量范围 Nominal capacitance range	0.47 ~ 6800uF																	
标称电容量允许偏差 Capacitance tolerance	± 20% (M) (25°C 120Hz)																	
漏电流 Leakage current	$I < 0.03C_R U_R$ (uA) 或 5uA (取较大者 Whichever is greater after 5 minutes)																	
损耗角正切值 (tg δ) Dissipation factor (25°C, 120HZ)	容量大于1000uF者, 每增加1000uF, 其损耗角正切值增加0.02																	
	<table border="1"> <tr> <td><math>U_R</math>(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>tg δ</td> <td>0.24</td> <td>0.24</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.10</td> <td>0.09</td> </tr> </table> <p>0.02 is added to every 1000uF increase over 1000uF</p>	$U_R$ (V)	6.3	10	16	25	35	50	63	100	tg δ	0.24	0.24	0.20	0.15	0.15	0.15	0.10
$U_R$ (V)	6.3	10	16	25	35	50	63	100										
tg δ	0.24	0.24	0.20	0.15	0.15	0.15	0.10	0.09										
温度特性 Temperature characteristics (120HZ)	容量大于1000uF者, 每增加1000uF, 阻抗比增加1																	
	<table border="1"> <tr> <td><math>U_R</math>(V)</td> <td>6.3</td> <td>10-16</td> <td>25-100</td> </tr> <tr> <td>Z-25°C/Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> </tr> <tr> <td>Z-40°C/Z+20°C</td> <td>7</td> <td>5</td> <td>4</td> </tr> </table> <p>1 is added to every 1000uF increase over 1000uF</p>	$U_R$ (V)	6.3	10-16	25-100	Z-25°C/Z+20°C	4	3	2	Z-40°C/Z+20°C	7	5	4					
	$U_R$ (V)	6.3	10-16	25-100														
Z-25°C/Z+20°C	4	3	2															
Z-40°C/Z+20°C	7	5	4															
耐久性 Load life	<p>+105°C加额定电压2000小时, 恢复16小时后: After applying rated voltage for 2000 hours at +105°C and then resumed 16 hours: 电容量变化率 Capacitance change: ±20%初始测量值以内 Initial measured value 漏电流 Leakage current: &lt; 初始规定值 Initial specified value 损耗角正切值 Dissipation factor: &lt; 150%初始规定值 Initial specified value</p>																	
高温贮存 Shelf life	<p>+105°C, 500小时, 恢复16小时后: After storage for 500 hours at 105°C then resumed 16 hours: 电容量变化率 Capacitance change: ±20%初始测量值以内 Initial measured value 漏电流 Leakage current: &lt; 200%初始规定值 Initial specified value 损耗角正切值 Dissipation factor: &lt; 200%初始规定值 Initial specified value</p>																	

## 外型图及尺寸表

Case size table

ΦD	±0.5						
	5	6.3	8	10	13	16	18
F±0.5	2.0	2.5	3.5	5.0		7.5	
d±0.1	0.5		0.6			0.8	



## 双极性 小型铝电解电容器

**NP** Series Aluminum Electrolytic Capacitors  
 系列铝电解电容器

规格尺寸对照表

U <sub>R</sub>	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)	
	DXL	R.C.	DXL	R.C.	DXL	R.C.	DXL	R.C.
10 (100)					5X11	27	5X11	27
22 (220)			5X11	37	5X11	40	6.3X11	46
33 (330)	5X11	45	5X11	45	5X11	49	6.3X11	56
47 (470)	5X11	54	5X11	54	6.3X11	67	6.3X11	67
100 (101)	6.3X11	90	6.3X11	90	8X11	110	8X11	110
220 (221)	8X11	150	8X11	150	10X12	195	10X16	215
330 (331)	8X11	185	10X16	240	10X16	265	13X20	320
470 (471)	10X12	260	10X16	290	10X20	345	13X20	380
1000 (102)	10X20	460	13X20	510	13X25	605	16X25	670
2200 (222)	13X25	820	16X25	940	16X30	1070	18X35	1140
3300 (332)	16X25	1110	16X30	1200	18X35	1400		
4700 (472)	16X30	1430	18X35	1520				
6800 (682)	18X35	1520						

U <sub>R</sub>	35V (1V)		50V (1H)		63V (1J)		100V (2A)	
	DXL	R.C.	DXL	R.C.	DXL	R.C.	DXL	R.C.
0.47 (R47)			5X11	7			5X11	8
1 (010)			5X11	10			5X11	12
2.2 (2R2)			5X11	15			6.3X11	20
3.3 (3R3)			5X11	18	5X11	20	6.3X11	25
4.7 (4R7)	5X11	21	5X11	22	6.3X11	24	6.3X11	30
10 (100)	5X11	30	6.3X11	37	6.3X11	40	8X11	50
22 (220)	6.3X11	51	8X12	63	8X11	68	10X16	97
33 (330)	8X11	72	8X12	77	10X12	98	13X20	140
47 (470)	8X11	86	10X12	105	10X16	130	13X20	170
100 (101)	10X16	160	10X20	190	13X20	225	16X25	300
220 (221)	13X20	290	13X25	340	16X25	405	18X35	510
330 (331)	13X20	350	16X25	460	16X30	535		
470 (471)	13X25	465	16X30	590				
1000 (102)	16X30	805						