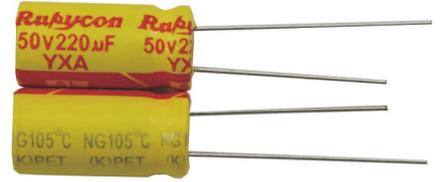


NL NB NY NG

105°C 双极性标准品



- 双极性，标准品，用于极性翻转或极性变换的电路中。Bi-polar Standard series, used in polarity reverse and change circuits.
- ROHS指令已对应完毕。Adapted to the ROHS directive.

系列 Serier Code	NL	NB	NY	NG
寿命 Life (hours)	6000	8000	10000	12000

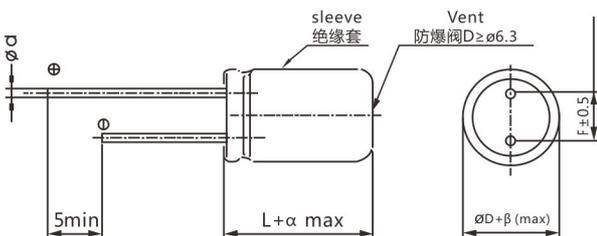
主要技术性能 Specifications

项目 Items	特性 Characteristics																											
使用温度范围 Operating Temperature Range	-40 ~ +105°C																											
额定电压范围 Rated Voltage Range	6.3 ~ 100V																											
标称容量范围 Nominal Capacitance Range	0.47~ 4700µF																											
标称容量允许偏差 Capacitance Tolerance	±10% (120Hz , +20°C)																											
正反向漏电流 Leakage Current	$I \leq 0.03CV + 3(\mu A)$ 2分钟 (at 20°C, after 2 minutes)																											
损耗角正切值 (tgδ) Dissipation Factor (+20°C, 120Hz)	<table border="1"> <tr> <td>UR (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>tgδ</td> <td>0.28</td> <td>0.24</td> <td>0.22</td> <td>0.20</td> <td>0.15</td> <td>0.14</td> <td>0.13</td> <td>0.13</td> </tr> </table>	UR (V)	6.3	10	16	25	35	50	63	100	tgδ	0.28	0.24	0.22	0.20	0.15	0.14	0.13	0.13									
UR (V)	6.3	10	16	25	35	50	63	100																				
tgδ	0.28	0.24	0.22	0.20	0.15	0.14	0.13	0.13																				
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>UR (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>Z-25°C / Z+20°C</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>10</td> <td>8</td> <td>6</td> <td>5</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	UR (V)	6.3	10	16	25	35	50	63	100	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2	Z-40°C / Z+20°C	10	8	6	5	4	4	3	3
UR (V)	6.3	10	16	25	35	50	63	100																				
Z-25°C / Z+20°C	4	3	2	2	2	2	2	2																				
Z-40°C / Z+20°C	10	8	6	5	4	4	3	3																				
耐久性 Load Life	<p>105°C加额定电压达规定时间 (每250小时反转极性一次) 恢复16小时后： After applying rated voltage for specified time belon at 105°C(with the polarity inverted every 250 hours) and then resumed 16 hours:</p> <table border="1"> <tr> <td>系列 Serier Code</td> <td>NL</td> <td>NB</td> <td>NY</td> <td>NG</td> </tr> <tr> <td>寿命 Life (hours)</td> <td>6000</td> <td>8000</td> <td>10000</td> <td>12000</td> </tr> </table> <p>电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏 电 流 Leakage current : ≤初始规定值 Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 2times of the initial specified value</p>	系列 Serier Code	NL	NB	NY	NG	寿命 Life (hours)	6000	8000	10000	12000																	
系列 Serier Code	NL	NB	NY	NG																								
寿命 Life (hours)	6000	8000	10000	12000																								
高温贮存 Shelf Life	<p>+105°C,1000小时贮存后,恢复16小时后: After storage for 1000 hours at +105°Cand then resumed 16 hours 电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏 电 流 Leakage current : ≤2倍初始规定值 2times of the initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 2times of the initial specified value</p>																											

频率修正系数 Frequency Coeffieint

容量 CAP(µF)	60	120	1K	≥ 10k
0.47~68	0.8	1	1.45	1.7
100~470	0.8	1	1.35	1.5
680~4700	0.8	1	1.2	1.3

外形图及尺寸表 Case Size Table



单位Unit:mm

D	5	6.3	8	10	12.5	16	18
F	2	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.5、0.6	0.6	0.6	0.8	0.8

αMAX	< L < 20 > 1.5	βMAX	< D < 20 > 0.5
	< L ≥ 20 > 2.0		< D ≥ 20 > 1.0

尺寸 Dimensions

额定容量 CAP(μF)		额定电压 WV		6.3V(0J)		10V(1A)		16V(1C)		25V(1E)		35V(1V)	
		尺寸 Size	纹波 Ripple										
4.7	4R7											5×11	34
10	100							5×11	38	5×11	42	5×11	43
22	220			5×11	48	5×11	55	6.3×11	65	6.3×11	73		
33	330	5×11	58	5×11	60	5×11	64	6.3×11	80	8×11.5	100		
47	470	5×11	76	5×11	76	6.3×11	95	6.3×11	95	8×11.5	120		
100	101	5×11	100	6.3×11	125	6.3×11	130	8×11.5	160	10×12.5	200		
220	221	8×11.5	155	8×11.5	160	8×11.5	205	10×12.5	255	10×20	325		
330	331	8×11.5	205	8×11.5	215	10×12.5	260	10×16	320	12.5×20	380		
470	471	10×12.5	280	10×12.5	310	10×16	365	12.5×20	435	12.5×25	520		
1000	102	10×16	360	10×20	445	12.5×20	535	12.5×25	580	16×25	780		
2200	222	12.5×20	680	16×25	885	16×30	1050						
3300	332	16×25	1050	16×30	1150								
4700	472	16×30	1250										

额定容量 CAP(μF)		额定电压 WV		50V(1H)		63V(1J)		100V(2A)	
		尺寸 Size	纹波 Ripple	尺寸 Size	纹波 Ripple	尺寸 Size	纹波 Ripple	尺寸 Size	纹波 Ripple
0.47	R47	5×11	8	5×11	9	5×11	10		
1	010	5×11	12	5×11	15	5×11	16		
2.2	2R2	5×11	18	5×11	22	6.3×11	24		
3.3	3R3	5×11	27	5×11	28	6.3×11	30		
4.7	4R7	5×11	34	6.3×11	34	6.3×11	35		
10	100	5×11	34	6.3×11	57	8×11.5	71		
		6.3×11	52						
22	220	8×11.5	89	8×11.5	95	10×16	135		
33	330	8×11.5	105	10×12.5	135	10×20	185		
47	470	10×12.5	150	10×16	180	12.5×20	200		
100	101	10×16	205	12.5×20	320	16×25	425		
220	221	12.5×20	360	12.5×25	430	16×35	520		
330	331	16×25	550	16×30	580				
470	471	16×30	580	18×35	760				

尺寸Size φD×L(mm)

最大允许纹波电流Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz