

NB

特点 Features

- 保证85°C 2000小时。Endurance :2000h at 85°C。
额定电压范围：6.3~160V。Rated Voltage Range: 6.3~160V.
- 双极性，标准品，用于极性翻转或极性变换的电路中。
Bi-polarized Standard series, used in polarity reverse and change circuits.
- 满足RoHS。RoHS Compliant.



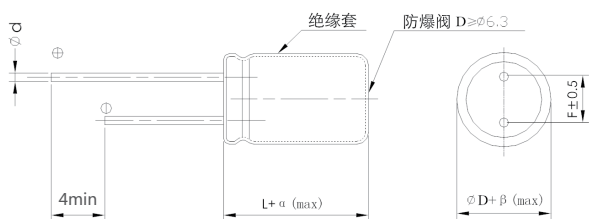
主要技术性能 Specifications

项目 Items	特性 Performance Characteristics																															
类别温度范围 Category Temperature Range	-40~+85°C	-25~+85°C																														
额定电压范围 Rated Voltage Range (U _R)	6.3~100V	160V																														
标称电容范围 Rated Capacitance Range(C _R)	0.47~6800μF																															
标称电容允许偏差 Rated Capacitance Tolerance(C _T)	±20%(M)																															
漏电流 Leakage Current(I _L)	≤0.03C _R U _R + 3μA																															
损耗角正切值 Tangent of loss angle(Tanδ)	<table border="1"> <tr> <td>U_R (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> <td>160</td> </tr> <tr> <td>Tanδ</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> <td>0.15</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	63	100	160	Tanδ	0.28	0.24	0.22	0.20	0.15	0.14	0.13	0.13	0.15	120Hz, +20°C Max. 120Hz, +20°C										
U _R (V)	6.3	10	16	25	35	50	63	100	160																							
Tanδ	0.28	0.24	0.22	0.20	0.15	0.14	0.13	0.13	0.15																							
低温特性 Characteristics at low temperature	<table border="1"> <tr> <td>U_R (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> <td>160</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> <td>4</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> <td>-</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	63	100	160	Z _{25°C} / Z _{+20°C}	4	3	2	2	2	2	2	2	4	Z _{40°C} / Z _{+20°C}	10	8	6	5	4	4	3	3	-	Max. 120Hz
U _R (V)	6.3	10	16	25	35	50	63	100	160																							
Z _{25°C} / Z _{+20°C}	4	3	2	2	2	2	2	2	4																							
Z _{40°C} / Z _{+20°C}	10	8	6	5	4	4	3	3	-																							
耐久性 Load life	+85°C，不超过额定电压的范围内叠加额定纹波电流，连续加载额定电压2000小时（每250小时反转极性一次），恢复16小时后： Overlay the rated ripple current within the range of rated voltage and continuously load the rated voltage for 2000 hours +85(with the polarity inverted every 250 hours) , Recover for 16 hours ; 电容变化率Capacitance change : ±20%初始测量值以内 within ±20% of initial value 损耗角正切值 Tanδ : ≤2倍初始规定值 Not more than 200% of specified value 漏电流 Leakage current : ≤初始规定值 Not more than specified value																															
高温贮存 Shelf life	+85°C,1000小时贮存后,恢复16小时后： After storage for 1000 hours at +85°C and then recovery 16 hours: 电容变化率Capacitance change : ±20%初始测量值以内 within ±20% of initial value 损耗角正切值 Tanδ : ≤2倍初始规定值 Not more than 200% of specified value 漏电流 Leakage current : ≤2倍初始规定值 Not more than 200% of specified value																															

频率修正系数 Frequency Coefficient

Frequency (Hz)	60	120	1K	≥10k
C _R (μF) \ Kf				
0.47~68	0.8	1	1.45	1.7
100~470	0.8	1	1.35	1.5
680~6800	0.8	1	1.2	1.3

尺寸图 Dimension drawings



单位 Unit: mm

D	5	6.3	8	10	12.5	16	18
F	2.0	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	α L < 20 > 1.5
	α L ≥ 20 > 2.0

βMAX	β D < 20 > 0.5
	β D ≥ 20 > 1.0

规格特性表
Table of specifications and characteristics

C _r (μF)	U _r (V)	6.3		10		16		25		35	
		ΦD×L mm*mm	I _{AC,max} 120Hz 85°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 85°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 85°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 85°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 85°C mA
4.7										5×11	34
10						5×11	47	5×11	42	5×11	43
22				5×11	57	5×11	57	6.3×11	65	6.3×11	73
								5×11	42		
33		5×11	64	5×11	64	5×11	68	6.3×11	80	8×11.5	100
47		5×11	76	5×11	76	6.3×11	95	6.3×11	95	8×11.5	120
								5×11	76		
100		6.3×11	125	6.3×11	125	8×11.5	160	8×11.5	160	10×16	230
220		8×11.5	215	8×11.5	215	10×12.5	275	10×16	305	12.5×20	410
330		8×11.5	265	10×16	345	10×16	375	12.5×20	450	12.5×20	505
470		10×12.5	370	10×16	410	10×20	485	12.5×20	540	12.5×25	655
1000		10×20	650	12.5×20	720	16×25	855	16×25	950	16×30	1140
2200		12.5×25	1160	16×25	1280	16×30	1510	18×35	1620	18×40	1650
3300		16×25	1570	16×30	1690	18×35	1980				
4700		16×30	2020	18×35	2160						
6800		18×35	2600								

C _r (μF)	U _r (V)	50		63		100		160	
		ΦD×L mm*mm	I _{AC,max} 120Hz 85°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 85°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 85°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 85°C mA
0.47		5×11	11			5×11	14		
1		5×11	17			5×11	21		
2.2		5×11	25			6.3×11	34		
						8×11.5	36		
3.3		5×11	27	5×11	28	6.3×11	39	10×16	49
						8×11.5	45		
4.7		5×11	34	6.3×11	34	6.3×11	47	10×16	59
						8×11.5	65		
6.8		5×11	38	6.3×11	42	6.3×11	48		
						8×11.5	75		
10		5×11	40	6.3×11	57	8×11.5	71	12.5×20	109
		6.3×11	52						
22		8×11.5	89	8×11.5	95	10×16	135	12.5×25	177
		6.3×11	54	10×12.5	135	12.5×20	220	16×25	240
33		8×11.5	105						
		8×11.5	110	10×16	180	12.5×20	240	16×35	329
47		10×12.5	150						
		10×20	265	12.5×20	320	16×25	425	18×35	425
220		12.5×25	480	16×25	575	18×35	720		
330		16×25	650	16×30	655				
470		16×30	835	18×35	965				