



鋁電解電容器

Aluminum Electrolytic Capacitor



RTE Series 铝电解电容器低阻抗、长寿命品

Aluminum electrolytic Capacitor Low impedance, Long Life

- 寿命: +105 °C 2000 小时 Life time: +105 °C 2000Hrs
- 符合 RoHS 指令 RoHS compliance



主要技术性能 Specifications

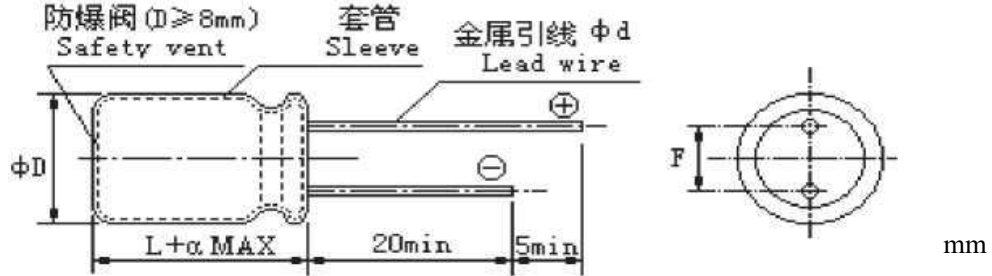
项目 Items	特 性 Characteristics																					
使用温度范围 Operating Temperature Range	-40~+105°C																					
额定电压范围 Rated Voltage Range	6.3~50V. DC																					
标称电容量允许偏差 Capacitance Tolerance	±20% (120Hz, 20°C)																					
漏电流(20°C) Leakage Current	$I \leq 0.01CV(\mu A)$ 或 $3\mu A$ 取较大者 (2 分钟) $I \leq 0.01CV$ or $3\mu A$ Whichever is greater (after 2 minutes)																					
损耗角正切值 Dissipation Factor (120Hz 20°C)	<table border="1"> <thead> <tr> <th>WV</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tgδ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table> <p>容量大于 1000 μF 者, 每增加 1000 μF, 其损耗角正切值增加 0.02 For capacitance exceeding 1000 μF, add 0.02 per increment of 1000 μF</p>	WV	6.3	10	16	25	35	50	tgδ	0.22	0.19	0.16	0.14	0.12	0.10							
WV	6.3	10	16	25	35	50																
tgδ	0.22	0.19	0.16	0.14	0.12	0.10																
温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	<table border="1"> <thead> <tr> <th>WV</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <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> </tr> <tr> <td>Z_{-40°C} / Z_{+20°C}</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	WV	6.3	10	16	25	35	50	Z _{-25°C} / Z _{+20°C}	4	3	2	2	2	2	Z _{-40°C} / Z _{+20°C}	8	6	4	3	3	3
WV	6.3	10	16	25	35	50																
Z _{-25°C} / Z _{+20°C}	4	3	2	2	2	2																
Z _{-40°C} / Z _{+20°C}	8	6	4	3	3	3																
耐久性 Load Life	<p>+105°C施加额定电压 2000 小时, 恢复 16 小时后, 电容器应满足要求 After applying rated voltage for 5000 hours at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.</p> <table border="1"> <tbody> <tr> <td>电容量变化率 Capacitance Change</td> <td>≤±25%初始测量值 ≤±25% of Initial measured value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤规定值 ≤The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤2 倍规定值 ≤200% of the specified value</td> </tr> </tbody> </table>	电容量变化率 Capacitance Change	≤±25%初始测量值 ≤±25% of Initial measured value	漏电流值 Leakage	≤规定值 ≤The specified value	损耗角正切值 Dissipation Factor	≤2 倍规定值 ≤200% of the specified value															
电容量变化率 Capacitance Change	≤±25%初始测量值 ≤±25% of Initial measured value																					
漏电流值 Leakage	≤规定值 ≤The specified value																					
损耗角正切值 Dissipation Factor	≤2 倍规定值 ≤200% of the specified value																					
高温贮存 Shelf Life	<p>+105°C, 1000 小时, 然后按 JISC5101-4 第 4.1 项预处理后测量。 After storage for 1000 hours at +105 °C, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JISC5101-4.</p> <table border="1"> <tbody> <tr> <td>电容量变化率 Capacitance Change</td> <td>≤±20%初始测量值 ≤±20% of Initial measured value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤规定值 ≤The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td>≤2 倍规定值 ≤200% of the specified value</td> </tr> </tbody> </table>	电容量变化率 Capacitance Change	≤±20%初始测量值 ≤±20% of Initial measured value	漏电流值 Leakage	≤规定值 ≤The specified value	损耗角正切值 Dissipation Factor	≤2 倍规定值 ≤200% of the specified value															
电容量变化率 Capacitance Change	≤±20%初始测量值 ≤±20% of Initial measured value																					
漏电流值 Leakage	≤规定值 ≤The specified value																					
损耗角正切值 Dissipation Factor	≤2 倍规定值 ≤200% of the specified value																					

■ 额定纹波电流的频率系数 Frequency coefficient of rated ripple current

频率 (Hz)	120	1K	10K≤	100K
CAP (μF)				
10~220μF	0.40	0.75	0.90	1.0
330~470μF	0.5	0.85	0.94	1.0
1000~3300μF	0.60	0.87	0.95	1.0

RTE Series

■外形图及尺寸 Case size table



$\Phi D \pm 0.5$	5	6.3	8	10	12.5 or 13	16
L	11	11	12, 14	13, 16, 20, 25	20, 25	20, 25, 32
$F \pm 0.5$	2.0	2.5	3.5	5.0	5.0	7.5
$\Phi d \pm 0.05$	0.5			0.6		0.8
a	1.5				2.0	

■ 规格壳号、最大允许纹波电流

Standard sizes & Maximum permissible ripple current

CAP (μF) \ wv	6.3V			10V			16V		
	Size	Ripple	Z(Ω)	Size	Ripple	Z(Ω)	Size	Ripple	Z(Ω)
47							5×11	90	1.50
100				5×11	158	0.60	5×11	260	0.58
220				6.3×11	207	0.58	6.3×11	460	0.22
330				6.3×11	411	0.58	8×12	620	0.18
470	8×12	462	0.25	8×12	506	0.23	8×12 8×14	680 720	0.16 0.15
1000	8×12	650	0.13	8×14	826	0.15	10×16	1053	0.09
2200	10×25	1059	0.07	13×20	1155	0.055	13×25	1480	0.05
3300	10×25	1320	0.06	13×25	1593	0.042			

CAP(μF) \ wv	25V			35V			50V		
	Size	Ripple	Z(Ω)	Size	Ripple	Z(Ω)	Size	Ripple	Z(Ω)
10				5×11	105	1.5	5×11	55	4.5
22				5×11	115	1.2	5×11	81	2.8
33	5×11	81	1.5	6.3×11	130	0.58	5×11	113	1.85
47	5×11	97	1.2	6.3×11	220	0.58	6.3×11	135	1.30
100	6.3×11	161	0.58	8×12	330	0.39	8×12	235	0.60
220	8×12	460	0.25	8×12	450	0.25	10×16	448	0.28
330	8×14	586	0.16	10×13	725	0.16	10×20	605	0.18
470	10×13	805	0.14	13×20	945	0.10	13×20	836	0.13
1000	10×20	1352	0.08	13×25	1490	0.06	16×25	1511	0.06

I~ 额定纹波电流 Rated ripple current: (mA, 105°C, 100KHz)
 Z~ 阻抗值 Impedance: (Ω, 20°C, 100KHz)