

RT1 Series (standard) 引线型铝电解电容器105°C标准品

- 体积小, 容量大 • 105°C
- 性能稳定, 符合 RoHS
- Small size, Large capacity • 105°C
- High stability, RoHS Compliance

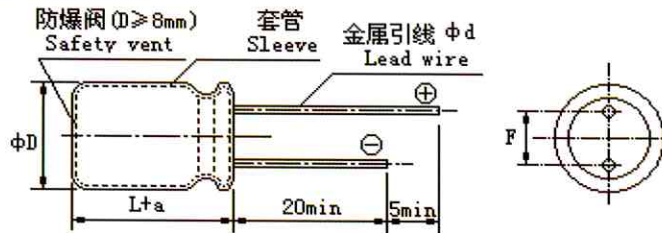
Standard of 105°C Aluminum Electrolytic Capacitor of Radial Lead Type



主要技术性能 Specifications

使用温度范围 Operating Temperature Range	-55 ~ +105°C	-40 ~ +105°C	-25 ~ +105°C																																																								
额定电压范围 Rated Voltage Range	6.3 ~ 100V. DC	160 ~ 400V. DC	450V. DC																																																								
标称电容量允许偏差 Capacitance Tolerance	± 20% (120Hz, 20°C)																																																										
漏电流 Leakage Current	6.3 ~ 100V.DC	160 ~ 450V.DC																																																									
	$I \leq 0.01CV (\mu A)$ 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)	$CV \leq 1000$	$CV > 1000$																																																								
损耗角正切值 Dissipation Factor (120Hz 20°C)	<table border="1"> <tr> <td>W.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> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>tg δ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.08</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.25</td> <td>0.25</td> <td>0.25</td> </tr> </table>														W.V.	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	tg δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.20	0.20	0.25	0.25	0.25															
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容量大于 1000 μ F 者, 每增加 1000 μ F, 其损耗角正切值增加 0.02 For capacitance exceeding 1000 μ F, add 0.02 per increment of 1000 μ F																																																											
温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	<table border="1"> <tr> <td>WV</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> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z -25°C/ Z +20°C</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> <td>4</td> <td>6</td> <td>6</td> <td>7</td> </tr> <tr> <td>Z -40°C/ Z +20°C</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> <td>8</td> <td>8</td> <td>10</td> <td>-</td> </tr> </table>														WV	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	Z -25°C/ Z +20°C	5	4	3	2	2	2	2	2	3	3	4	6	6	7	Z -40°C/ Z +20°C	10	8	6	4	3	3	3	3	4	4	8	8	10	-
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Z -40°C/ Z +20°C	10	8	6	4	3	3	3	3	4	4	8	8	10	-																																													
+105°C 施加带纹波电流的额定电压 1000 小时 ($\phi D \geq 10$, 2000 小时), 恢复 16 小时后 After applying rated voltage with specified ripple current for 1000 hours ($\phi D \geq 10$; 2000h) at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.																																																											
耐久性 Load Life	<table border="1"> <tr> <td>电容量变化率 Capacitance Change</td> <td colspan="14">≤ ± 25% 初始测量值 ≤ ± 25% of Initial measured value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td colspan="14">≤ 规定值 ≤ The specified value</td> </tr> <tr> <td>损耗角正切值 Dissipation Factor</td> <td colspan="14">≤ 2 倍规定值 ≤ 200% of the specified value</td> </tr> </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													
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高温贮存 Shelf Life	+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.																																																										
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外形图及尺寸 Case size table



ΦD ± 0.5	5	6.3	8	10	12.5 or 13	16	18
L	11	11	11.5	13, 16, 20	20, 25	25, 31, 36	31, 36, 40
F ± 0.5	2.0	2.5	3.5	5.0			7.5
Φd ± 0.05	0.5	0.5/0.6		0.6			0.8
a	1.5 (WV ≤ 100); 2.0 (WV > 100)					2.0	

RT1 Series (standard)

■ 标称电容量、额定电压、额定纹波电流及外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

WV mA μF	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		
	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	
0.47 (R47)												5×11	7		
1.0 (010)												5×11	13		
2.2 (2R2)												5×11	20		
3.3 (3R3)												5×11	25		
4.7 (4R7)												5×11	32		
10 (100)												5×11	47	5×11	48
22 (220)										5×11	64	5×11	70	5×11	80
33 (330)								5×11	69	5×11	77	5×11	94	6.3×11	100
47 (470)					5×11	80	5×11	84	5×11	100	6.3×11	115	6.3×11	140	
100 (101)	5×11	96	5×11	105	5×11	130	5×11	135	6.3×11	170	8×11.5	200	8×11.5	230	
220 (221)	5×11	160	5×11	165	6.3×11	220	6.3×11	240	8×11.5	300	10×12	360	10×16	390	
330 (331)	6.3×11	210	6.3×11	235	6.3×11	270	8×11.5	335	10×12	400	10×16	470	10×20	540	
470 (471)	6.3×11	275	6.3×11	295	8×11.5	375	8×11.5	440	10×12	525	10×20	600	12.5×20	700	
680 (681)	6.3×11	285	8×11.5	430	8×11.5	480	10×12	630	10×16	760	12.5×20	980	12.5×25	800	
1000 (102)	8×11.5	460	8×11.5	500	10×12	640	10×16	740	10×20	865	12.5×25	1060	16×25	1200	
2200 (222)	10×16	775	10×16	860	10×20	1050	12.5×20	1090	16×25	1370	16×31	1600	18×31	1400	
3300 (332)	10×20	985	10×20	1100	12.5×20	1300	16×25	1500	16×25	1680	18×36	1780			
4700 (472)	12.5×20	1150	12.5×20	1350	12.5×25	1650	16×25	1800	16×36	1870					
6800 (682)	12.5×25	1480	16×25	1700	16×25	1900	16×36	1910	18×36	1920					
10000 (103)	16×25	1700	16×25	1950	16×31	1950	18×36	2050							
15000 (153)	16×31	2090	16×36	2090	18×36	2070									
22000 (223)	18×31	2280	18×36	2180											
33000 (333)	18×40	2350													

WV mA μF	100 (2A)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA	ΦD×L	I~mA
0.47 (R47)	5×11	8					6.3×11	8	6.3×11	8				
1.0 (010)	5×11	15					6.3×11	16	6.3×11	16	6.3×11	16	6.3×11	15
2.2 (2R2)	5×11	21					6.3×11	30	6.3×11	25	8×11.5	31	8×11.5	20
3.3 (3R3)	5×11	30			6.3×11	36	6.3×11	30	8×11.5	30	8×11.5	34	10×12	33
4.7 (4R7)	5×11	35	6.3×11	43	6.3×11	40	8×11.5	45	8×11.5	45	10×12	42	10×12	35
10 (100)	5×11	60	8×11.5	77	8×11.5	57	10×12	90	10×16	95	10×16	64	10×20	37
22 (220)	6.3×11	98	10×12	92	10×16	105	10×16	105	12.5×20	175	12.5×20	140	12.5×25	100
33 (330)	8×11.5	140	10×16	125	10×20	140	10×20	140	12.5×25	220	16×25	170	16×25	125
47 (470)	8×11.5	185	10×20	150	10×20	195	12.5×20	190	16×25	260	16×25	200	16×31	155
100 (101)	10×16	290	12.5×25	320	16×25	340	16×25	310	18×31	370	18×36	310	18×40	200
220 (221)	12.5×20	560	16×31	410	16×36	580	18×36	485						
330 (331)	12.5×25	690	18×31	570	18×40	675								
470 (471)	16×25	880	18×40	855										
680 (681)	16×31	900												
1000 (102)	18×36	985												

I~ 额定纹波电流 Rated ripple current: (mA, 105°C, 120Hz)