

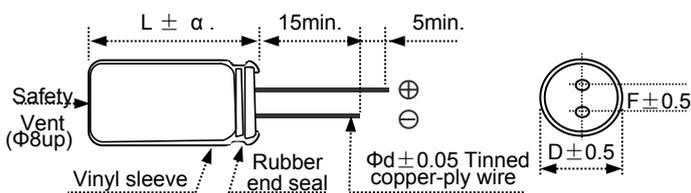
RJ Series

- Low impedance ,high ripple current ,long life,downsized
- Power supply output,105°C 8000~10000hours
- RoHS2.0 Compliant

◆ 规格表 Specifications

项目 Items	特性参数 Characteristics									
使用温度范围 Category Temperature Range	- 40 ~ +105°C									
额定工作电压范围 Rated Voltage Range	6.3 ~ 100V _{dc}									
静电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20°C,120Hz)									
漏电流 Leakage Current	I≤0.01CV or 3μA, 二者取最大值 Whichever is greater, (After 2 minutes application of rated voltage) Note: I=Max.leakage current (μA), C=Nominal capacitance(μF), V=Rated voltage(V) (at 20°C after 2minutes)									
损耗角正切值 tanδ Dissipation Factor	Rated voltage(V)	6.3	10	16	25	35	50	63	80	100
	tanδ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.09	0.08
When nominal capacitance exceeds 1,000uF,add 0.02 to the value above for each 1,000uF increa(at 20°C,120Hz)										
低温特性 Low Temperature Characteristics (Max.Impedance Ratio)	阻抗比值不得超过下表中列出的值 The impedance ratio shall not exceed the values listed in the below table.									
	Rated voltage(V)	6.3	10	16	25	35	50	63	80	100
	Z(-25°C)/Z(+20°C)	3	2	2	2	2	2	2	2	2
Z(-40°C)/Z(+20°C) 4 3 3 3 3 3 3 3 3 3 (at 120Hz)										
耐久性 Endurance	在105°C环境中, 不超过额定电压的范围内叠加最大允许纹波电流, 连续加载右表时间, 经恢复到20°C后, 电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple Current is applied for the specified period of time at 105°C									
	Capacitance change	≅±25% of the initial value(6.3,10V _{dc} : ≅±30%)							Load life	
	D.F.(tanδ)	≅200% of the initial specified value							5~6.3	8000h
	Leakage current	≅The initial specified value							≥8	10000h
高温储存特性 Shelf Life	在105°C环境中, 不施加电压条件下储存1000小时, 经恢复到20°C后, 电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored at 20°C after exposing them for 1000 hours at 105°C without voltage applied.									
	Capacitance change	≅±25% of the initial value(6.3,10V _{dc} : ≅±30%)								
	D.F.(tanδ)	≅200% of the initial specified value								
	Leakage current	≅200% of the initial specified value								

◆ 尺寸图 (单位: mm) DIMENSIONS (Unit:mm)



ΦD	5	6.3	8	10
F	2	2.5	3.5	5.0
Φd	0.5	0.5	0.5	0.6

α	(L<20)1.5
	(L≥20)2.0

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

● 频率系数 Frequency Coefficient

Capacitance(μF)	Frequency(Hz)			
	120	1k	10k	100k
8.2 ~ 180	0.40	0.75	0.90	1.00
220 ~ 560	0.50	0.85	0.94	1.00
680 ~ 1800	0.60	0.87	0.95	1.00
2200 ~ 3900	0.75	0.90	0.95	1.00
> 3900	0.85	0.95	0.98	1.00

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◆ 标准品一览表 Standard Ratings

WV (V _{dc})	Cap. (μF)	Case Size ΦD×L(mm)	Impedance (Ω) Max. 20°C/100kHz	Rated ripple current (mA _{rms}) 105°C/100KHz	WV (V _{dc})	Cap. (μF)	Case Size ΦD×L(mm)	Impedance (Ω) Max. 20°C/100kHz	Rated ripple current (mA _{rms}) 105°C/100KHz	WV (V _{dc})	Cap. (μF)	Case Size ΦD×L(mm)	Impedance (Ω) Max. 20°C/100kHz	Rated ripple current (mA _{rms}) 105°C/100KHz
6.3	100	5×11	0.560	240	10	100	5×11	0.500	385	16	100	5×11	0.430	420
	220	5×11	0.380	350		150	5×11	0.400	455		220	6.3×11	0.220	650
	330	6.3×11	0.250	440		220	6.3×11	0.220	620		330	8×12	0.140	800
	470	6.3×12	0.170	542		330	6.3×11	0.170	710		470	8×12	0.075	1,220
	680	8×12	0.130	820		470	8×12	0.130	1,050		560	8×16	0.058	1,620
	820	8×12	0.075	950		560	8×12	0.075	1,210		680	8×16	0.057	1,650
	1,000	8×14	0.070	1,070		680	8×16	0.065	1,520		680	10×13	0.052	1,720
	1,200	8×16	0.059	1,255		820	8×16	0.059	1,682		820	8×20	0.040	1,980
		10×13	0.053	1,335			10×13	0.061	1,650		1,000	10×16	0.038	2,050
	1,500	8×20	0.041	1,510		1,000	8×20	0.041	1,950		1,500	10×20	0.028	2,550
	1,800	10×16	0.039	1,765		1,500	10×20	0.036	2,190		1,500	13×16	0.035	2,450
	2,200	10×17	0.034	1,810		1,800	10×20	0.028	2,520		1,800	10×25	0.025	2,930
	2,700	10×20	0.028	1,965		2,200	10×25	0.025	2,915		2,200	13×20	0.024	2,610
	3,300	10×25	0.026	2,250		3,300	13×25	0.020	3,221		3,300	13×30	0.018	3,670
	3,900	13×20	0.025	2,490		4,700	13×30	0.018	3,670		3,300	16×20	0.020	3,350
	4,700	13×25	0.021	2,700			16×20	0.021	3,330		4,700	18×20	0.019	3,500
	5,600	13×25	0.019	2,910		5,600	13×35	0.016	4,110		5,600	16×25	0.017	3,800
	6,800	13×30	0.018	3,460		6,800	18×20	0.200	3,460		6,800	16×32	0.016	4,120
6,800	16×20	0.021	3,260	6,800	16×30	0.015	3,815	6,800	18×25	0.016	3,900			
10,000	16×25	0.016	3,650	10,000	18×32	0.014	4,200	10,000	18×36	0.012	4,400			
25	47	5×11	0.480	325	35	47	5×11	0.380	440	50	10	5×11	1.000	200
	100	6.3×11	0.210	540		100	6.3×11	0.170	695		22	5×11	0.600	380
	150	6.3×12	0.170	695		180	8×12	0.075	1,210		33	6.3×11	0.450	510
	220	8×12	0.130	950		220	8×16	0.059	1,620		47	6.3×11	0.290	600
	330	8×14	0.080	1,230		330	8×20	0.041	1,960		68	8×12	0.200	740
	470	8×16	0.059	1,610		470	10×20	0.028	2,505		100	8×12	0.085	1,205
		10×13	0.053	1,720		680	10×25	0.026	2,900		150	10×13	0.073	1,300
	680	10×16	0.038	2,020		820	13×20	0.025	2,600		220	10×16	0.053	1,655
	820	10×20	0.028	2,505		1,000	13×25	0.023	2,750		330	10×20	0.038	2,050
	1,000	13×16	0.035	2,415		1,500	13×30	0.018	3,665			13×16	0.045	2,150
	1,500	13×20	0.025	2,590			16×20	0.021	3,330		470	13×20	0.032	2,305
	1,800	13×25	0.019	3,205		1,800	13×35	0.016	4,125		680	13×25	0.025	2,810
		13×30	0.018	3,670			16×25	0.017	3,820		820	13×30	0.023	3,365
	2,200	16×20	0.021	3,340		2,200	13×35	0.016	4,150			16×20	0.026	3,070
	3,300	16×25	0.017	3,820		2,700	18×25	0.016	3,880		1,000	13×35	0.021	3,820
		18×20	0.020	3,460		3,300	16×36	0.014	4,285		1,500	16×32	0.020	4,025
	4,700	16×31	0.016	4,105			18×32	0.014	4,200			18×25	0.022	3,525
		18×25	0.016	3,890		3,900	16×40	0.013	4,560		2,200	16×40	0.015	4,510
5,600	16×36	0.014	4,280		18×36	0.012	4,400		18×32	0.016	4,080			
6,800	18×36	0.012	4,380	4,700	18×40	0.110	4,965	3,300	18×40	0.012	4,860			

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WV (V _{dc})	Cap. (μF)	Case Size ΦD×L(mm)	Impedance (Ω) Max. 20°C/100kHz	Rated ripple current (mA _{rms}) 105°C/100kHz	WV (V _{dc})	Cap. (μF)	Case Size ΦD×L(mm)	Impedance (Ω) Max. 20°C/100kHz	Rated ripple current (mA _{rms}) 105°C/100kHz	WV (V _{dc})	Cap. (μF)	Case Size ΦD×L(mm)	Impedance (Ω) Max. 20°C/100kHz	Rated ripple current (mA _{rms}) 105°C/100kHz
63	22	6.3×11	0.500	255	80	10	5×11	1.000	200	100	6.8	5×11	1.500	180
	33	6.3×11	0.400	360		22	6.3×11	0.500	340		10	6.3×11	1.200	260
	47	6.3×12	0.280	440		33	6.3×11	0.420	440		15	6.3×11	0.600	340
	68	8×12	0.150	720		47	8×12	0.250	625		22	8×12	0.500	500
	100	8×16	0.130	990		68	8×16	0.160	780		33	8×12	0.280	620
	150	8×20	0.096	1,200		100	10×16	0.110	1,040		47	8×16	0.170	780
	220	10×20	0.075	1,455		220	10×25	0.060	1,630		56	10×13	0.160	790
	330	10×25	0.040	1,990		330	13×25	0.042	2,030		68	8×20	0.150	1,040
	390	13×20	0.036	2,000		390	13×25	0.035	2,200		100	10×20	0.072	1,440
	470	13×25	0.031	2,470		470	13×30	0.033	2,400		150	10×25	0.058	1,620
	560	13×25	0.027	2,470			16×20	0.035	1,960		220	13×25	0.043	2,215
	680	13×30	0.024	2,770		560	13×35	0.028	2,605		330	13×35	0.035	2,580
	820	13×35	0.022	3,040		680	16×25	0.029	2,430		390	16×25	0.034	2,430
	1,000	16×25	0.024	2,900			18×20	0.034	2,280		470	16×30	0.028	2,650
	1,200	18×25	0.022	2,940		820	16×31	0.025	2,640		560	16×35	0.026	2,850
	1,500	18×32	0.020	3,380			18×25	0.028	2,500		680	16×40	0.025	3,520
1,800	18×36	0.019	3,560	1,000	16×36	0.025	2,860	820	18×36	0.024	3,550			
2,200	18×40	0.017	3,950	1,500	18×40	0.022	3,600	1,000	18×40	0.022	3,880			

※铝电解电容器由于在纹波电流叠加时自我发热、温度上升而老化，中心温度每升温5°C寿命减少一半。要想保持长寿命请在使用过程中降低纹波电流。
 The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.