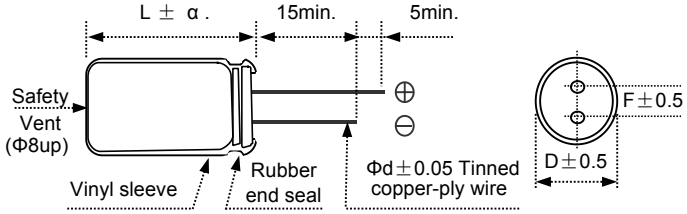
RC Series

- Low impedance ,high ripple current
- For switching power supply
- 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℃														
额定工作电压范围 Rated Voltage Range	6.3 ~ 450V.DC														
静电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20℃,120Hz)														
漏电流 Leakage Current	I≤0.01CV or 3μA ,二者取大值（施加额定工作电压2分钟后） Whichever is greater （After 2 minute application of rated voltage ）							I≤0.02CV+10(μA) （施加额定工作电压2分钟后） （After 2 minute application of rated voltage ）							
	Note: I=Max,leakage current (μA), C=Nominal capacitance(μF), V=Rated voltage(V) （at 20℃）														
损耗角正切值tanδ Dissipation Factor	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.15	0.15	0.2	0.2	0.2
	标称容量超过1000 μF,则每增加1000 μF,损耗角正切值增加0.02. When nominal capacitance exceeds 1000μF,add 0.02 to the value above for each 1000μF increase. (at 20℃,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. (at 120Hz)														
	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	Z(-25℃)/Z(+20℃)	4	3	3	3	3	2	2	2	3	5				6
	Z(-40℃)/Z(+20℃)	8	6	4	4	4	4	4	4	4	7				8
耐久性 Endurance	在105℃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℃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℃ after subjected to DC voltage with the rated ripple Current is applied for the specified period of time at 105℃														
	Capacitance change	≦±20% of the initial value													
	D.F.(tanδ)	≦200% of the initial specified value													
	Leakage current	≦The initial specified value													
	Load life														
	6.3~100v	Φ5~ Φ8 : 2000h; ≥Φ10:3000h													
	160~450v	Φ6.3:3000h; ≥Φ8:5000h													
高温储存特性 Shelf Life	在105℃环境中，不施加电压条件下储存1000小时，经恢复到20℃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℃ after exposing them for 1000 hours at 105℃ without voltage applied.														
	capacitance change	≦±20% of the initial value													
	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	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5/0.6	0.6	0.6	0.8	0.8

α	(L<20)1.5
	(L≧20)2.0

◆ 纹波电流补正系数 Rated Ripple Current Coefficient

● 频率系数 Frequency Coefficient

Rated Voltage(V)	Frequency(Hz) / Capacitance(μF)	120	1K	10K	100K
6.3~450V	≤ 4.7μF	0.42	0.70	0.90	1.00
	5.6 ~ 33μF	0.50	0.73	0.92	1.00
	34 ~ 330μF	0.55	0.77	0.94	1.00
	331 ~ 1,000μF	0.60	0.80	0.96	1.00
	＞1,000μF	0.70	0.85	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℃ /100kHz	Rated ripple current (mArms) 105℃/100KHz
6.3	33	5×11	1.0	100
	47	5×11	1.0	125
	100	5×11	0.550	165
	150	5×11	0.500	200
	220	6.3×11	0.450	250
	330	6.3×11	0.260	295
	470	8×12	0.180	410
	680	8×16	0.140	580
	820	8×20	0.120	680
	1,000	10×13	0.090	730
	2,200	13×20	0.045	1,455
	3,300	13×25	0.038	1,650
	4,700	16×26	0.030	2,310
	6,800	16×32	0.017	2,880
	10,000	16×36	0.017	3,160
	15,000	18×36	0.015	3,690
10	22	5×11	1.0	100
	33	5×11	1.0	125
	47	5×11	1.0	150
	100	5×11	0.500	165
	150	6.3×11	0.450	220
	220	6.3×11	0.350	275
	330	8×12	0.180	470
	470	8×12	0.120	560
	680	10×13	0.100	710
	820	10×16	0.080	850
	1,000	10×16	0.068	1,050
	2,200	13×20	0.038	1,670
	3,300	13×25	0.030	1,950
	4,700	16×26	0.022	2,310
	6,800	16×32	0.020	3,050
	10,000	18×36	0.016	3,250
16	10	5×11	2.0	125
	22	5×11	1.0	150
	33	5×11	1.0	150
	47	5×11	0.500	150
	100	6.3×11	0.250	220
	150	6.3×11	0.220	300
	220	8×12	0.180	410
	330	8×12	0.160	470
	470	10×13	0.090	740
	680	10×16	0.075	800
	820	10×20	0.065	1,050
	1,000	10×20	0.052	1,230
	2,200	13×25	0.032	1,960
	3,300	16×26	0.022	2,520
	4,700	16×32	0.019	3,020
	6,800	18×36	0.015	3,720

WV (V_{dc})	Cap. (μF)	Size ΦD×L (mm)	Impedance (Ω) Max. 20℃ /100kHz	Rated ripple current (mArms) 105℃ /100KHz
16	10,000	18×40	0.015	3,810
25	4.7	5×11	2.8	80
	6.8	5×11	2.5	95
	10	5×11	1.5	125
	22	5×11	0.900	140
	33	5×11	0.900	150
	47	5×11	0.500	160
	68	6.3×11	0.420	180
	100	6.3×11	0.250	220
	150	8×12	0.220	330
	220	8×12	0.200	450
	330	10×13	0.090	670
	470	10×16	0.068	950
	680	10×20	0.055	1,100
	820	10×20	0.050	1,250
	1,000	13×20	0.045	1,450
	2,200	16×32	0.022	2,520
	3,300	18×36	0.019	3,020
	4,700	18×36	0.015	3,720
	6,800	18×40	0.034	4,087
35	4.7	5×11	4.2	110
	6.8	5×11	2.8	120
	10	5×11	1.2	135
	22	5×11	0.800	150
	33	5×11	0.500	180
	47	6.3×11	0.400	220
	68	6.3×11	0.300	250
	100	6.3×11	0.230	286
	150	8×12	0.180	550
	220	10×13	0.090	730
	330	10×16	0.068	860
	470	10×20	0.052	1,056
	680	13×20	0.045	1,250
	820	13×20	0.040	1,400
	1,000	13×25	0.031	1,870
	2,200	16×32	0.019	2,530
	3,300	18×36	0.025	3,390
	4,700	18×40	0.016	4,130
50	0.47	5×11	6.0	68
	1.0	5×11	5.0	80
	2.2	5×11	4.0	90
	3.3	5×11	3.2	95
	4.7	5×11	2.7	110
	6.8	5×11	2.5	120
	10	5×11	2.0	145
	22	5×11	1.5	170
	33	6.3×11	1.0	220
	47	6.3×11	0.800	260

WV (V_{dc})	Cap. (μF)	Size ΦD×L (mm)	Impedance (Ω) Max. 20℃ /100kHz	Rated ripple current (mArms) 105℃ /100KHz
50	68	8×12	0.630	330
	100	8×12	0.520	490
	150	10×13	0.300	650
	220	10×16	0.088	820
	330	10×20	0.073	930
	470	13×20	0.072	1,230
	680	13×25	0.070	1,450
	820	16×26	0.070	1,550
	1,000	16×26	0.070	1,960
63	0.47	5×11	6.0	68
	1.0	5×11	5.5	80
	2.2	5×11	4.5	90
	3.3	5×11	4.0	95
	4.7	5×11	3.0	110
	6.8	5×11	2.8	120
	10	5×11	2.0	145
	22	6.3×11	1.0	220
	33	6.3×11	0.900	250
	47	8×12	0.850	305
	68	8×12	0.700	365
	100	10×13	0.270	535
	150	10×16	0.220	650
	220	10×20	0.130	860
	330	13×20	0.090	1,010
	470	13×25	0.087	1,520
	680	16×26	0.065	1,700
	1,000	16×32	0.036	2,270
100	0.47	5×11	8.0	68
	1.0	5×11	6.0	80
	2.2	5×11	5.5	90
	3.3	5×11	4.5	95
	4.7	6.3×11	4.0	130
	6.8	6.3×11	3.8	145
	10	6.3×11	3.2	180
	22	8×12	2.5	285
	33	10×13	2.0	385
	47	10×16	1.5	510
	68	10×20	1.0	600
	100	13×20	0.800	900
	150	13×25	0.650	1,250
	220	16×26	0.090	1,450
	330	16×32	0.090	1,550
	470	18×36	0.060	1,980

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WV (V_{dc})	Cap. (μF)	Case Size ΦD×L(mm)	Rated ripple current (mArms) 105℃/100KHz
160	10	10X16	320
	22	10X20	500
	33	10X20	650
	47	10X20	750
	68	12.5X20	1180
	82	12.5X25	1,420
	100	16X20	1,420
	150	16X25	1,890
	220	18X25	2,370
200	6.8	8X12	204
	10	10X16	320
	22	10X16	453
	22	10X20	500
	33	10X16	589
	33	10X20	650
	47	12.5X20	980
	68	12.5X25	1,300
	68	16X20	1,300
	82	16X20	1,380
	100	16X20	1,420
	150	16X25	1,890
	220	18X30	2,648
250	4.7	8X12	160
	6.8	8X12	215
	6.8	10X12.5	250
	10	10X16	320
	22	10X16	453
	22	10X20	500
	33	10X16	640
	33	12.5X20	800
	47	12.5X20	980
	47	12.5X20	1,200
	68	16X20	1,300
	82	16X20	1,380
	100	16X25	1,530
	150	18X25	1,940

WV (Vdc)	Cap. (μF)	Case Size ΦD×L(mm)	Rated ripple current (mArms) 105℃/100KHz
350	5	10X12.5	150
	5.6	10X12.5	180
	6.8	10X16	280
	10	10X20	350
	22	12.5X20	650
	33	16X20	900
	47	16X20	1,080
	68	18X25	1,470
	82	18X25	1,530
400	1	8X12	60
	1.5	8X12	90
	1.5	10X12.5	100
	1.8	8X12	95
	1.8	10X12.5	120
	2.2	8X12	95
	2.2	10X12.5	140
	3.3	8X12	130
	3.3	10X12.5	150
	4.7	8X12	171
	4.7	10X16	220
	5.6	10X16	250
	6.8	10X16	280
	10	10X16	317
	10	10X20	350
	15	12.5X25	487
	15	12.5X20	550
	22	12.5X20	760
	33	12.5X25	861
	33	16X20	900
	47	12.5X25	1,027
	47	16X20	1,073
	47	16X25	1,180
	47	18X20	1,180
	68	16X25	1,374
	68	16X30	1,488
	68	18X25	1,470

WV (V_{dc})	Cap. (μF)	Case Size ΦD×L(mm)	Rated ripple current (mArms) 105℃/100KHz
450	2.2	8X12	105
	4.7	8X16	176
	4.7	10X20	220
	5.6	10X20	250
	6.8	10X12.5	228
	6.8	10X20	280
	10	10X20	397
	10	12.5X20	450
	15	12.5X25	600
	22	12.5X25	698
	22	16X20	730
	33	16X20	891
	33	16X25	980
	47	16X25	1,121
	47	18X20	1,093
	47	18X25	1,200

※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℃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℃ rise.When long life performance is required in actual use,the rms ripple current has to be reduced.

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