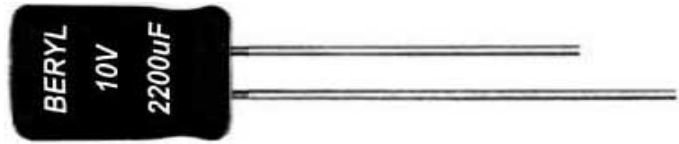


RC Series

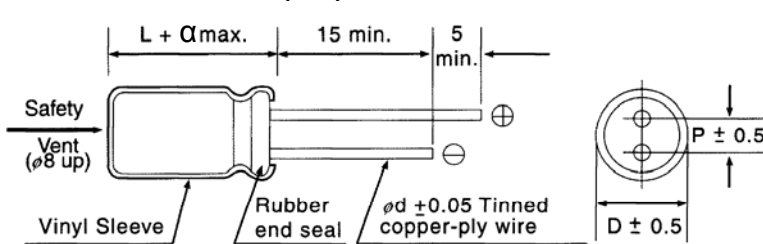
- Low impedance type
- For switching power supply use
- RoHS Compliant



规格表SPECIFICATIONS

项目Items	特性参数Characteristics												
使用温度范围 Category Temperature Range	-55 ~ +105℃(6.3 ~ 100V)   -40 ~ +105℃(160 ~ 400V)   -25 ~ +105℃(450V)												
额定工作电压范围 Rated Voltage Range	6.3 ~ 450V												
电容量允许偏差 Capacitance Tolerance	±20%(M)   (at 20℃,120Hz)												
漏电流 Leakage Current	6.3 ~ 100V						160 ~ 450V						
	I=0.03CV or 4μA, Whichever is greater after 1 minute. 1分钟读数, 二者取大值。 I=0.01CV or 3μA, Whichever is greater after 2 minutes. 2分钟读数, 二者取大值。 Where, I:Max.leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V)   (at 20℃)												
	CV	After 1minute 1分钟读数		After 5minutes 5分钟读数									
	CV ≤ 1000	I=0.1CV+40		I=0.03CV+15									
CV > 1000	I=0.04CV+100		I=0.02CV+25										
损耗角正切值tanδ Dissipation Factor	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160 ~ 250	400	450	
	tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.20	0.24	0.24	
	标称容量超过1000uF,则每增加1000uF,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)	电容器120HZ下的阻抗比值下不应超过下表所列出的值												
	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160 ~ 250	400	450	
	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2	2	2	3	5	6	
Z(-40℃)/Z(+20℃)	8	6	4	3	3	3	3	3	6	6	-		
耐久性 Endurance	105℃施加额定工作电压经下表规定时间, 恢复后 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℃. Time for 6.3 ~ 100V   Φ5to8 : 2000 hours   Φ10 & 16 : 3000 hours Time for 160 ~450V   5000 hours												
	Capacitance change	≤ ±20% of the initial value											
	D.F.(tanδ)	≤ 200% of the specified value											
	Leakage current	≤ The specified value											
	105℃放置1000小时, 经恢复后 The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hours at 105℃ without voltage applied.												
高温储存特性 Shelf Life	Rated voltage	6.3 ~ 100V						160 ~ 450V					
	capacitance change	≤ ±20% of the initial value						≤ ±20% of the initial value					
	D.F.(tanδ)	≤ 200% of the specified value						≤ 200% of the specified value					
	Leakage current	≤ The specified value						≤ 500% of the specified value					

外型图DIMENSIONS (mm)



ΦD	5	6.3	8	10	13	16	18
P	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	0.8	0.8

α	(L < 20) 1.0
	(L ≥ 20) 2.0

纹波电流修正系数 RATED RIPPLE CURRENT MULTIPLIERS

频率系数 Frequency Multipliers

Rated Voltage(V)	Case code	Frequency(Hz)			
		120	1K	10K	100K
6.3 10	Φ5 (~ 47μF)	0.40	0.75	0.93	1.00
	Φ5 (100μF), Φ6.3, Φ8	0.70	0.86	0.96	1.00
	Φ10 ~ Φ18	0.85	0.95	0.98	1.00
16 ~ 35	Φ5 (~ 22μF)	0.30	0.68	0.91	1.00
	Φ5 (33μF ~), Φ6.3, Φ8	0.50	0.80	0.94	1.00
	Φ10 ~ Φ18	0.70	0.88	0.97	1.00
50 63	Φ5 (~ 3.3μF)	0.20	0.66	0.90	1.00
	Φ5 (4.7μF ~), Φ6.3, Φ8	0.40	0.76	0.93	1.00
	Φ10 ~ Φ18	0.60	0.84	0.96	1.00
100	Φ5 (~ 1μF)	0.20	0.60	0.88	1.00
	Φ5 (2.2μF ~), Φ6.3, Φ8	0.30	0.65	0.90	1.00
	Φ10 ~ Φ18	0.40	0.75	0.93	1.00
160 ~ 450	Φ10	0.25	0.61	0.88	1.00
	Φ12.5 ~ Φ18	0.35	0.66	0.89	1.00

■ 尺寸与最大纹波电流一览表 STANDARD RATINGS

WV(V) cap(μF)	6.3(0J)				10(1A)				16(1C)				25(1E)				
4.7														5x11	2.5	7.0	100
10									5x11	2.0	3.5	125	5x11	1.5	3.0	130	
22					5x11	1.0	2.0	150	5x11	1.0	2.0	150	5x11	0.9	1.9	160	
33	5x11	1.0	2.0	150	5x11	1.0	2.0	150	5x11	1.0	2.0	150	5x11	0.9	1.9	160	
47	5x11	1.0	2.0	150	5x11	1.0	2.0	150	5x11	0.5	1	175	5x11	0.5	1.0	180	
100	5x11	0.55	1.0	165	5x11	0.50	1.0	180	6.3x11	0.25	0.5	295	6.3x11	0.25	0.5	290	
220	6.3x11	0.45	0.67	275	6.3x11	0.25	0.5	290	8x12	0.18	0.36	410	8x12	0.1	0.24	560	
330	6.3x11	0.26	0.53	295	8x12	0.18	0.36	410	8x12	0.12	0.24	560	10x13	0.09	0.18	740	
470	8x12	0.18	0.35	410	8x12	0.12	0.24	560	10x13	0.09	0.18	740	10x16	0.068	0.136	1050	
1,000	10x13	0.09	0.18	730	10x16	0.068	0.136	1050	10x20	0.052	0.104	1230	13x20	0.037	0.074	1695	
2,200	13x20	0.045	0.09	1455	13x20	0.038	0.076	1670	13x25	0.032	0.06	1960	16x25	0.022	0.045	2520	
3,300	13x20	0.038	0.075	1,650	13x25	0.03	0.061	1,950	16x25	0.022	0.044	2,520	16x31.5	0.019	0.038	3,020	
4,700	16x25	0.03	0.06	2,310	16x25	0.022	0.045	2,500	16x31.5	0.019	0.038	3,020	18x35.5	0.015	0.033	3,720	
6,800	16x25	0.017	0.034	2,880	16x31.5	0.02	0.041	2,750	18x35.5	0.015	0.035	3,720	18x40	0.034	0.103	4,250	
10,000	16x31.5	0.017	0.034	3,160	18x35.5	0.016	0.032	3,250	18x40	0.015	0.035	3,810					
15,000	18x35.5	0.015	0.030	3,690													

WV(V) Cap(μF)	35(1V)				50(1H)				63(1J)				100(2A)			
0.47					5x11	6.0	21.0	68					5x11	8.0	28.0	70
1.0					5x11	5.0	15.0	80					5x11	6.0	22.0	85
2.2					5x11	4.0	12.0	90					5x11	5.5	21.0	98
3.3					5x11	3.2	10.5	95					5x11	4.5	17.0	100
4.7	5x11	1.9	5.0	110	5x11	2.7	8.5	100	5x11	3.0	12.0	110	6.3x11	4.0	14.0	130
10	5x11	1.2	2.5	145	5x11	1.3	2.5	124	5x11	2.0	8.0	130	6.3x11	1.2	4.2	180
22	5x11	0.8	1.8	170	5x11	0.9	1.8	155	6.3x11	1.0	2.0	240	8x12	0.66	2.4	285
33	5x11	0.5	1.0	175	6.3x11	0.60	1.8	250	6.3x11	0.9	1.8	280	10x13	0.50	1.8	385
47	6.3x11	0.30	0.8	230	6.3x11	0.45	0.9	260	8x12	0.56	1.6	305	10x16	0.32	1.1	510
100	8x12	0.18	0.36	400	8x12	0.22	0.44	490	10x13	0.27	0.65	535	13x20	0.16	0.55	900
220	10x13	0.09	0.19	730	10x16	0.088	0.18	1055	10x20	0.13	0.26	1150	16x25	0.090	0.32	1,450
330	10x16	0.068	0.136	1060	10x20	0.073	0.15	1255	13x20	0.09	0.18	1310	16x25	0.090	0.31	1,550
470	10x20	0.052	0.105	1230	13x20	0.085	0.26	1,130	13x20	0.055	0.11	2,090	16x31.5	0.060	0.21	1,800
1,000	13x25	0.031	0.06	1,960	16x25	0.034	0.068	2,250	16x31.5	0.036	0.07	2,770				
2,200	16x31.5	0.019	0.038	3,000	18x35.5	0.023	0.046	3,110								
3,300	18x35.5	0.016	0.032	3,690												
4,700	18x40	0.016	0.032	4,230												

WV(V) CaP(μF)	160(2C)			200(2D)			250(2E)		
4.7							8x16	3.6	265
10	8x14	1.5	350	8x16	1.4	350	10x16	2.8	330
22	10x16	1.1	450	10x16	1	450	13x21	1.2	410
33	10x20	0.7	540	10x20	0.7	560	13x21	1.1	510
47	13x21	0.46	650	13x21	0.42	670	13x25	0.60	590
100	16x25	0.25	980	16x25	0.17	1,180	16x32	0.30	985
220	18x32	0.13	1,570	18x35	0.12	1,770	18x35	0.27	1,100

WV(V) CaP(μF)	400(2G)			450(2W)		
2.2	8 X16	4.6	85	10x16	7	110
3.3	10x16	2.8	215	10x20	6	155
4.7	10x16	2.2	250	10x20	3.5	210
10	10x20	1.1	420	13x21	2.2	350
22	13x25	0.61	600	16x25	1.0	520
33	16x25	0.45	800	18x35	0.61	720
47	18x32	0.32	960			

ripple current :(mArms/105 °C, 100KHz)  
 Impedance:(Ωmax/20 °C, 100l  
 Impedance:ΦD×L(mm)