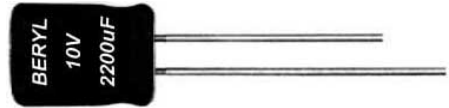


RD Series

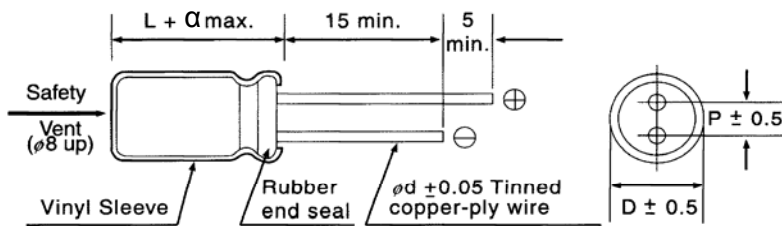
- Endurance with ripple current: 105°C 2000 to 8000 hours
- RoHS Compliant



规格表 SPECIFICATIONS

项目 Items	特性参数 Characteristics												
使用温度范围 Category Temperature Range	-55 ~ +105°C (6.3 ~ 100V) -40 ~ +105°C (160 ~ 400V) -25 ~ +105°C (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°C, 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(20°C)												
	I=0.01CV or 3µA, Whichever is greater after 2 minutes. 2分钟读数, 二者取大值(20°C)												
	Where, I: Max. leakage current (µA), C: Nominal capacitance (µF), V: Rated voltage (V) (at 20°C)												
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1000µF, 则每增加1000µF, 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°C, 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°C)/Z(+20°C)	4	3	2	2	2	2	2	2	3	5	6	
	Z(-40°C)/Z(+20°C)	8	6	4	3	3	3	3	3	6	6	-	
耐久性 Endurance	105°C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°C after subjected to DC voltage the with rated ripple current is applied for the specified period of time at 105°C.												
	Time for 6.3 ~ 100V	Φ5 & 6.3 : 2000 hours Φ8 & 10 : 3000 hours Φ12.5 and larger : 5000 hours											
	Time for 160 ~ 450V	8000 hours											
	Capacitance change	≅ ±20% of the initial value											
	D.F. (tanδ)	≅ 200% of the specified value											
	Leakage current	≅ The specified value											
高温储存特性 Shelf Life	105°C放置1000小时, 经恢复后 The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.												
	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					

外形图 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 (to 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	3.0	9.0
10									5x11	2.0	6.0	126	5x11	2.0	6.0	126
22					5x11	1.3	3.9	156	5x11	1.3	3.9	158	5x11	1.3	3.9	158
33	5x11	1.3	3.9	158	5x11	1.3	3.9	158	5x11	1.3	3.9	158	5x11	1.3	3.9	158
47	5x11	1.3	3.9	158	5x11	1.3	3.9	158	5x11	1.3	3.9	158	5x11	1.3	3.9	158
100	5x11	1.3	3.9	158	5x11	1.3	3.9	158	6.3x11	0.60	1.8	264	6.3x11	0.60	1.8	264
220	6.3x11	0.60	1.8	264	6.3x11	0.60	1.8	264	8x12	0.33	0.99	405	8x12	0.3	1.0	405
330	6.3x11	0.60	1.8	264	8x12	0.33	0.99	405	8x12	0.33	0.99	405	10x13	0.3	0.8	512
470	8x12	0.33	0.99	404	8x12	0.33	0.99	405	10x13	0.25	0.75	514	10x16	0.2	0.57	638
1,000	10x13	0.25	0.75	514	10x16	0.19	0.57	638	10x20	0.14	0.42	864	13x20	0.085	0.26	1125
2,200	13x20	0.085	0.26	1125	13x20	0.085	0.26	1124	13x25	0.070	0.21	1325	16x25	0.060	0.18	1578
3,300	13x20	0.085	0.26	1,125	13x25	0.070	0.21	1,325	16x25	0.060	0.18	1,578	16x31.5	0.048	0.14	1,814
4,700	16x25	0.060	0.18	1,578	16x25	0.060	0.18	1,576	16x31.5	0.048	0.14	1,814	18x35.5	0.037	0.11	2,245
6,800	16x25	0.060	0.18	1,578	16x31.5	0.048	0.14	1,814	18x35.5	0.037	0.11	2,240	18x40	0.034	0.10	2,465
10,000	16x31.5	0.048	0.14	1,815	18x35.5	0.037	0.11	2,245	18x40	0.034	0.10	2,465				
15,000	18x35.5	0.037	0.11	2,245												

WV(V) cap(μF)	35(1V)				50(1H)				63(1J)				100(2A)			
	0.47					5x11	7.0	21.0	68					5x11	10.0	35.0
1.0					5x11	5.0	15.0	79					5x11	7.0	25.0	69
2.2					5x11	4.0	12.0	89					5x11	6.0	21.0	78
3.3					5x11	3.5	11.0	95					5x11	5.0	18.0	80
4.7	5x11	3.0	9.0	104	5x11	3.0	9.0	104	5x11	4.0	14.0	89	5x11	4.0	14.0	89
10	5x11	2.0	6.0	128	5x11	0.0	6.0	128	5x11	2.5	8.8	125	6.3x11	1.2	4.2	184
22	5x11	1.3	3.9	156	5x11	1.3	3.9	158	6.3x11	1.2	4.2	184	8x12	0.66	2.3	286
33	5x11	1.3	3.9	158	6.3x11	0.60	1.8	264	6.3x11	1.2	4.2	184	10x13	0.50	1.8	385
47	6.3x11	0.60	1.8	264	6.3x11	0.60	1.8	264	8x12	0.56	2.0	306	10x16	0.32	1.1	504
100	8x12	0.33	1.0	405	8x12	0.33	0.99	405	10x13	0.50	1.8	384	13x20	0.16	0.56	895
220	10x13	0.25	0.75	514	10x16	0.19	0.57	638	10x20	0.27	0.95	624	16x25	0.090	0.32	1,445
330	10x16	0.19	0.57	635	10x20	0.14	0.42	864	13x20	0.16	0.56	892	16x25	0.090	0.32	1,445
470	10x20	0.14	0.42	864	13x20	0.085	0.26	1,124	13x20	0.14	0.49	1,045	16x31.5	0.060	0.21	1,795
1,000	13x25	0.070	0.21	1,324	16x25	0.060	0.18	1,578	16x31.5	0.060	0.21	1,795				
2,200	16x31.5	0.048	0.14	1,814	18x35.5	0.037	0.11	2,245								
3,300	18x35.5	0.037	0.11	2,245												
4,700	18x40	0.034	0.10	2,465												
6,800																

WV(V) cap(μF)	160(2C)			200(2D)			250(2E)		
	4.7							10x16	3.5
10	10x16	1.5	254	10x16	1.5	254	10x20	2.8	234
22	10x20	1.1	354	10x20	1.1	352	13x25	1.2	368
33	13x20	0.71	445	13x20	0.71	448	13x25	1.2	368
47	13x25	0.46	604	13x25	0.46	605	16x25	0.60	578
100	16x25	0.24	912	16x31.5	0.17	1,168	18x35.5	0.30	938
220	18x35.5	0.14	1,375	18x35.5	0.14	1,378	18x40	0.27	1,004

WV(V) cap(μF)	400(2G)			450(2W)		
	2.2				10x16	7.9
3.3	10x20	2.9	198	10x20	6.2	138
4.7	10x25	2.3	224	13x20	3.7	195
10	13x25	1.2	364	13x25	2.6	256
22	16x25	0.61	573	16x31.5	1.0	484
33	16x31.5	0.46	706	18x35.5	0.62	658
47	18x31.5	0.33	868			

↑ ripple current : (mA rms/105 °C, 100KHz)
 ↑ Impedance : (Ω max/20 °C, 100KHz)
 ↑ Impedance : ΦD × L (mm)

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